

METROTEL

Look at it at its way



BY METROTEL If your business uses videotex you want the information you need without getting tangled in computer technology you don't need.

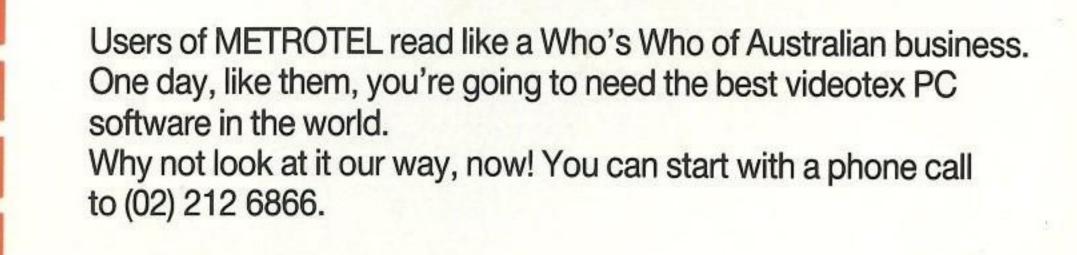
MVIEW takes the technology out of videotex for you.

MVIEW videotex computer software makes a computer as simple to use as a dedicated videotex terminal and gives you the speed, range and versatility of computer operation.

MVIEW by METROTEL is the best videotex software ever created for the business user.



If you're in the business of providing information for videotex you need METROTEL IPT, the world's leading videotex IP software. METROTEL IPT gives your business the ability to create, test and update up to 8000 pages of videotex faster and more efficiently. You get word processor speed and convenience, bulk updates of information, pre-timed updates, Online and offline operation, message sorting and a great deal more.



METROTEL A'ASIA Ltd., Fortune House, 88-90 Foveaux Street, Surry Hills 2010 Phone: (02) 212 6866 Telex: AA 75097 Viatel: 062001040 Node: *686#

Only excellence is good enough

GONHAILS

Cover — Art Direction & Design by Greg Jones. Telecom Graphic Design Group. Headquarters.

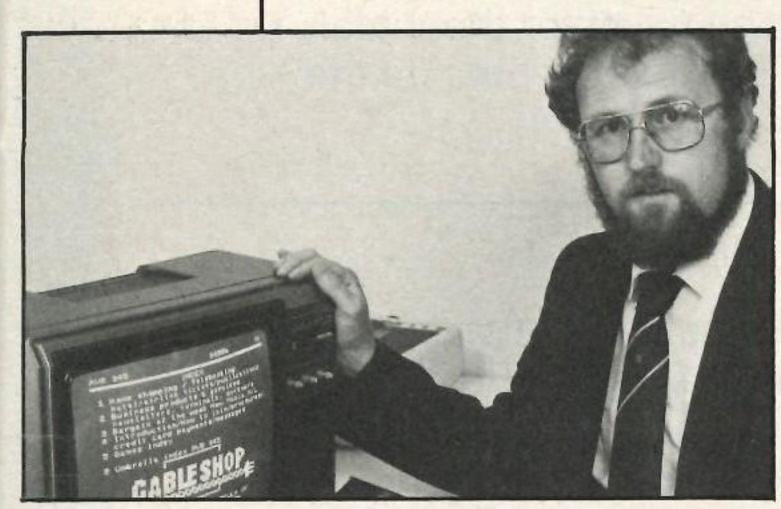


Portable Video Access.

USING VIATEL

2 Easy Guide

75Detailed Instructions



Teleshopping with Paul Budde.

SUBJECT INDEX

5 A to B 8 C to F 17 G to T 62 U to V

65 W to Y

MEFIVALE

25 A Good First Year for Viatel Lindsay Cunningham & Les Cardilini

27 Viatel for the Personal Computer User Stephen Withers

30 Teleshopping in Australia
Paul Budde

33 Telesoftware on Viatel
Scott Sanderson

37 Sigs, A New Viatel Service for Special Interest Groups
Les Cardilini

38 New Service Providers

42 VIATEL — Now you can Bet on it Richard Brisbane — Cohen

45 Telebroking on Viatel Demystifies the Stockmarket Gavin Randles

46 M View — Videotex Access made easy.

49 What Microtex 666 has on offer for the PC User
Stephen Withers

51 TENDERTEX — A Boost for Australian Business

52 Wesley Central Mission

54 Dick Smith Electronics

54 The Commodore Viatel Adaptor Gary Allen

55 Portable Videotex Access from Syscorp

SERVICE

67 A to B

68C to F

69G to T

71 U to V

71 W to Y



Mission for God — Wesley Central Mission.

-USING WATEL -

EASY GUIDE		
SWITCH ON		Turn your equipment on, making sure that all plugs are firmly pushed in, and that your telephone connection is plugged in.
DIAL		If your set has auto-dialling, key the code for Viatel and the set will dial the number for you. Otherwise, key in 01955 and await connection.
CONNECTION TO VIATEL		You may hear a clicking sound as your equipment dials and shortly afterwards a high pitched whistle. If your set is suitably equipped and programmed it will automatically enter your Customer Identity once you are connected to Viatel. If not, key it in carefully yourself when requested by Viatel. Enter your Personal Password when it is requested and wait for the Viatel Welcome Frame to appear on the screen.
LOOKING FOR INFORMATION		
Through Viatel itself 1. Keying through index choices:	*0#	Starting with the Viatel Main Index, you can simply follow the choices listed on each page, working towards more and more specific information.
2. Using the Viatel Alphabetical Subject index:	*13 #	An extensive alphabetical list to subjects is maintained on Viatel. You can find the name of the subject you want in a few simple steps and then key one or two numbers to go directly from there to the index page for information on that subject.
3. Using the Viatel Service Provider index:	*13#	This enables you to find the name of the Service Provider in an alphabetical list, and then go directly to that Service Provider's "front page".
Through the Printed Directory		The Viatel Printed Directory also contains alphabetical lists to subjects and to Service Providers. It cannot be up-dated as quickly as the on-screen Viatel indexes, but more detailed

-USING WHEL-

EASY GUIDE

		information can be provided, and it enables you to quickly find the right page number for the subject or Service Provider you want to find.
RETURNING TO MAIN INDEX	*0#	Use this if you wish to return to the Viatel Main Index.
TO LEAVE VIATEL	*90#	If there are new messages for you this page will tell you. If not, your call to Viatel will end.
RETURNING TO PREVIOUS FRAME	* #	May be used up to 3 times in succession on any one occasion. NOTE: You will have to pay any frame charges again.
REPEATING A FRAME	*00	This repeats the frame without any changes or updates. Use this feature if the page is disrupted by interference on the line. No charge is made.
	*09	Repeats the frame with any new updates or changes. If applicable, frame charges will be made.
KEYING CORRECTION	* *	This procedure clears any wrongly keyed number, and will allow you to rekey.
CHECKING YOUR BILL (Current usage Charge)	*92#	This page tells you the cost of the current call and any other made to Viatel during the current month.
CONTACTING VIATEL	*1052#	If you wish to send a message to Viatel.
MAILBOX	*103#	To send messages to other Viatel customers.

For a detailed description of Using Viatel, please refer to pages 75-79 in this Directory or to the coloured instruction Cards in your Welcome Kit.

HHH

Welcome to the second year of Viatel and the fourth issue of the Directory and Magazine. From just over 6,000 copies in February 1985 we've grown to 57,000 copies for this issue! However, this is a special issue and along with our normal distribution of 25,000 copies, the directory and magazine will be included free with the May issue of Australian Personal Computer.

For this issue we have focussed on the personal computer user and Viatel. Apart from our listings of Viatel Service Providers and our regular features, you'll find articles highlighting;

- telesoftware
- what Viatel has on offer for the PC user
- teleshopping in Australia
- the first year of Viatel

We are pleased to receive contributions from customers, Service Providers and equipment suppliers alike. However material submitted for the Viatel magazine should be forwarded on the basis that there is no guarantee of publication. Material should be sent to:

Manager — Viatel Directory and Magazine Telecom Australia 1st Floor 190 Queen Street MELBOURNE 3000

ABOUT THIS DIRECTORY

National Manager —
Viatel Directory & Magazine Greta Moon
Editor Les Cardilini
Art Direction Greg Jones
Design Darianne Willmott
Artwork Darianne Willmott
Leigh Kitching.

Graphic Design Group, Headquarters.
Telecom Australia.

Enquiries Advertising (03) 606 6377 Editorial (03) 606 6497

Published by Telecom Australia, 199 William Street,

Melbourne 3000

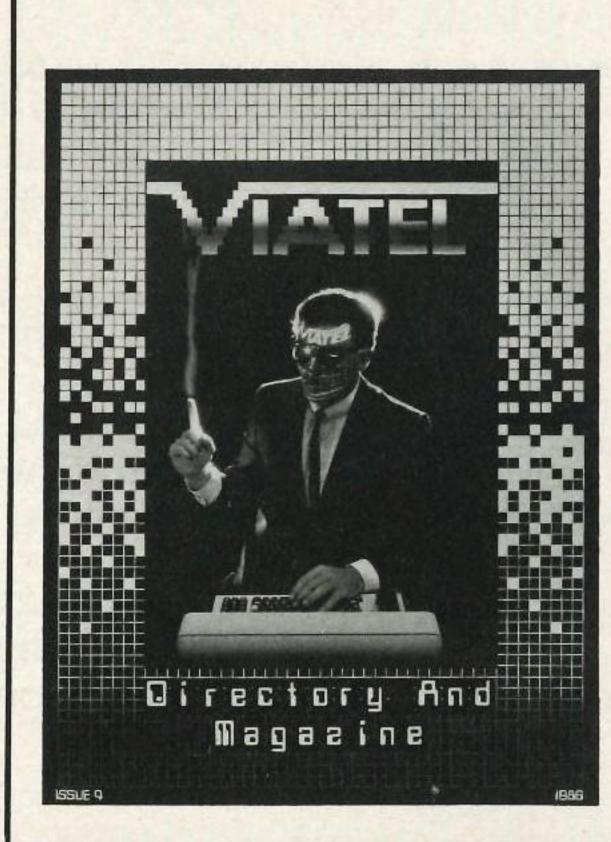
All information contained in this Directory is the copyright of Telecom Australia, except where otherwise stated.

The word Viatel referred to throughout this directory is a Telecom Trade Mark.

In no circumstances will Telecom Australia be liable in respect of any error in or omission from this Directory, or guarantee any advertising insertion date or special position.

Telecom Australia has compiled this directory from information supplied by Viatel Service Providers. Telecom Australia assumes no responsibility or liability for the accuracy of any information supplied or for any loss or damage which may arise or result from errors or omissions. While all reasonable care is taken in checking the authorisation of advertisers, the inclusion of advertisers under a particular brand logo or trade name, is no guarantee that every such advertiser is so authorised.

The views expressed in the articles in this publication are the views of the authors and are not necessarily the views of Telecom Australia.



SERVICE

PROBER

ISSUE 4 - 1986

This section lists the organizations providing information or services on Viatel in alphabetical order.



ACCOMMODATION	1!
Agetel 222	
Air NSW - Tasmania	
Ansett Airlines	
Cable Shop	
Commodore	3804
Comm Bank Travel	
Deakin University	
East West Air - Tasmania	
Flag Inns	
Homestead Motor Inns	
Infofront	24
Orpheus Island	
Skytex	74104
State Bank of N.S.W.	
State Bank of SA	
TAA	
Tasbureau's Tasmania	
Tasmania Be Tempted	
ACCOUNTING	
Adlib	
Cable Shop	
ADVENTURE GAMES	
Ace Videotex	414
Adlib	
Agetel 222	222
Astra Games	45
Electronic Mall	
GEC Digital	7359
Tastel	7650
The Western Front	
ADVERTISING & PROMOTION	1163
AAV Australia	
Cable Shop	345
Information Access Co.	49000
RACI-Chemistry	551
Yellow Pages	44
ADVERTISING FRAME	101
ADVERTISING ON VIATEL - RULES.	1031
ADVICE & INFORMATION	
AGRICULTURE	11

AIR FARES	1515
Ansett Airlines	
Cable Shop	
Commodore	380455
Comm Bank Travel	5552
Qantas	7473
Skytex	741042
TAA	5345
AIR SCHEDULES	1514
Ansett Airlines	7673
Commodore	380451
Qantas	747
Skytex	7410421
TAA	5344
AIR TRAVEL	
AIRLINE CLUBS	1516
Ansett Airlines	7676
TAA	534313
AIRLINES	
Air NSW - Tasmania	
Ansett Airlines	767

Ansett. the six star airline schedules fares holidays

*767#

Cable Shop	34524
Commodore	
East West Air - Tasmania	7009
Qantas	
Skytex	741042
TAA	534
Tasbureau's Tasmania	7000
AMUSEMENTS	122
ANTIQUES (Classified Ads)	1219211
National Trading Post ARCHITECTURE	77411
National Trading Post ARCHITECTURE	77411 116214
National Trading Post ARCHITECTURE Deakin University	77411 116214 4542
National Trading Post ARCHITECTURE	77411 116214 4542 731
National Trading Post ARCHITECTURE Deakin University R.A.I.A. Archidata	77411 116214 4542 731 116
National Trading Post ARCHITECTURE Deakin University R.A.I.A. Archidata ASSOCIATIONS(Professional) ASTROLOGY	7741111621445427311161227
National Trading Post ARCHITECTURE Deakin University R.A.I.A. Archidata ASSOCIATIONS(Professional) ASTROLOGY Ace Videotex	774111162144542731116116122741430
National Trading Post ARCHITECTURE Deakin University R.A.I.A. Archidata ASSOCIATIONS(Professional) ASTROLOGY	77411116214454273111612274143023599

For details of Qantas schedules and airfares. Key * 747 #



QPA 3971

* 555 #

COMMONWEALTH BANK



- Funds Transfer
- Bill Payment
- Account Balance and Statement Display
- Statement and Cheque Book Order
- Investment Information
- Money Market Rates and Commentary
- Foreign Exchange Rates
- Rural Information
- Travel Services
- Business and Personal Lending
- Telebroking

For information call the Telebank Hotline: Sydney — 232 6088

All other areas — (008) 22 1199 (Toll Free)

Spend the night with someone friendly.



When you need accommodation simply access "366" to book or enquire about the wide selection of over 370 Homestead Motor Inns within Australia. With Homestead, wherever you choose to travel, you will find a warm and friendly welcome awaiting.



If you're travelling overseas "366" will also give you information and bookings for over 3000 Best Western International Hotels worldwide.

Access * 366 #

ASTRONOMY	124214
The Henley Computer	23599
Videotex Productions	2345013
AUDIO EQUIPMENT	12425
Cable Shop	
Dick Smith Electronics	
AUDIO VISUAL EQUIPMENT	
Cable Shop	
Dick Smith Electronics	
R	
BANK SERVICES	1123
BANKING & FINANCIAL	
INSTITUTIONS	1122
ANIZ Danla	0001

R	
BANK SERVICES	1123
BANKING & FINANCIAL	
INSTITUTIONS	1122
ANZ Bank	8991
BNP	
B.N.P. Pacific	3320
Commonwealth Bank	
National Australia Bank	
State Bank of N.S.W.	
State Bank of SA	3630
State Bank of Victoria	
State Building Society	4001
Satisfac	7890
Videotex Productions	
Westpac See Display Ad. over page	
BIRTH CERTIFICATES	
BOOKS	
Cable Shop	
Databasics	
Infofront	
TechMedia	
Videotex Productions	2345011
Videotran	
BOOKS (Classified Ads)	
National Trading Post	77412
BOTANY	118273
CSIRO	23271
BUILDING COURSES	1293111
Deakin University	45421
TAFE WA	
BULLETIN BOARDS	
Blackboard	
Cable Shop.	

Databasics	3590132
Supertext	50034
Supertext BUSINESS ACCOMMODATION	11637
Cable Shop	345243
Flag Inns	698
BUSINESS COURSES	1293121
Deakin University	
TAFE WA	8881225
U.N.E.	5000124
BUSINESS EQUIPMENT	
Apple	
Barson Computers	335
Cable Shop	3457
Computerphone	
Infofront	
Maynetex	
P C Extras	
Tango	
vtx	
BUSINESS INFORMATION	
BUSINESS NEWS	
BUSINESS PUBLICATIONS	
A.C.T.U.	
Agetel 222	
Cable Shop	345662
Software Digest	40423
Telecom Information	8114
Vic Emp Fed.	
BUSINESS TRAINING	1293212
Vic Emp Fed	
Videotex Management	
BUSINESS TRAVEL	
BUYING GUIDES	
Databasics	
Cable Shop	
Videotex Management	445011215
Videotex Productions	23415
Videotran	
Yellow Pages	
The state of the s	
mation tall the Lebbary	aring reduction
CALCULATORS	12528
Cable Shop	24500



关333排 puts you in touch with Westpac

Westpac gives you instant videotex* access to Australia's most comprehensive and innovative banking and financial services group. Westpac has a wide range of computerised business data at the touch of a button, day or night — helping you to manage your business more effectively!

Key * 333 # for:

Westpac Investment Services

Details of current interest rates

Westpac Financial Services

Westpac Group Companies

International Information

Westpac Lending

 for Housing, Personal Loans and Investment

Westpac Calculators

 To actually calculate figures and requirements for Westpac Housing Loans and Foreign Exchange.



THE BANK

Westpac Banking Corporation

State Building Society	4001321
Viewtel	
CAMERAS	
Databasics	
CAR INSURANCE	
N.R.M.A	
CARS	
Databasics	359071
Dick Smith Electronics	345722
N.R.M.A.	2461
CARS (Classified Ads)	
Databasics	
Microtex 666	
National Trading Post	
CHANGING PERSONAL PASSW	
CHESS	
The Henley Computer	
The Western Front	308400
CHILD MINDING & HEALTH	12523
Adis-Meditel	65451
Wesley Central Mission	
CHURCHES	12519
Information Access Co.	
Wesley Central Mission	1910
CLASSIFIED ADS. SERVICES	
CLOSED USER GROUPS	
COAL	
Mindata	
COINS (Classified Ads)	1219214
National Trading Post	
COLLEGES & UNIVERSITIES	
Deakin University	
NSWIT Business Faculty	
TAFE WA	
U.N.E.	
Videotex Management	
COMMENTARIES	
COMMODITY PRICES	
Mindata	
Money Watch	
Tranztel	3657
COMMUNICATIONS	1182
ACI Computer Svcs	310
Agetel 222	
Apple	
ATUG	
Butler Cox	
Dutier Cox	40422



The service is under development and is open for inspection on Viatel node *444#

The National

Trading Post

The Melbourne Trading Post goes National on Viatel

★774#

Advertise your articles free Pay-only-if-you-sell

Enquiries Tel. (O3)785 O511

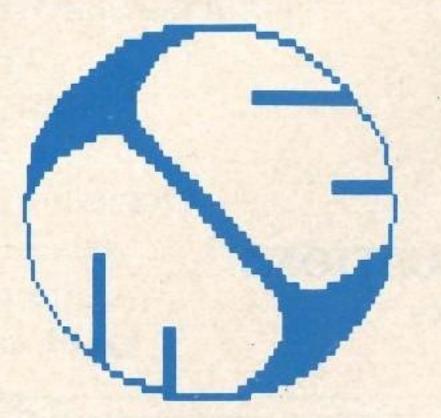
Messages ★7742#

Cable Shop	345701
Computerphone	
Hewlett Packard	
I.C.L	350
Maynetex	565
Metrotel	6869
OTT	
Tango	
Telecom Information	
Videotex Management	
Videotex Productions	
COMPANY REPORTS	11324
Money Watch	6008
COMPLAINTS	1052
COMPLIMENTS	1052
COMPUTER ASSOC.(Professional)	116919
Cable Shop	34580
Videotex Management	
COMPUTER CLUBS	
Cable Shop	345653
Microtex 666	
Videotex Management	
COMPUTER COURSES(Tertiary)	
Deakin University	
TAFE WA	8881219
COMPUTER COURSES	1000011
(Non-Qualif.)	
TAFE WA	
Videotex Management	445012
COMPUTER HARDWARE	178
ABE Computers	
Adlib	7072
Apple	4242424
Barson Computers	24562
Cable Shop	34302
Commodore Computers	.4243211
The Computer Shop	490090
Dick Smith Electronics	345722
Discware	778000
The Henley Computer	235753
Hewlett Packard	
Infofront	
Information Access Co.	
Micro Educational	
Microbee Systems	
Nashua Discs	
Olivetti	424560

Tango	424021
Videotex Productions	23412
COMPUTER SOFTWARE	
Apple	
Barson Computers	335
Cable Shop	
Commodore Computers	
Discware	
Hewlett Packard	
I.C.L.	
Infofront	
Metrotel	
Neologue P C Extras	779001
Software Digest	40422
Software Digest	42402
Videotex Management	44501211
Videotex Ivialiagement	23/12
COMPUTERS	
COMPUTERS (Classified Ads)	
Cable Shop	
Microtex 666	
National Trading Post	
COMPUTERS IN EDUCATION	12942
Barson Computers	
Cable Shop	THE PROPERTY OF THE PROPERTY O
Microbee Systems	2256
Microbee Systems COMPUTING SERVICES	2256 1163125
Microbee Systems COMPUTING SERVICES ACI Computer Svcs	2256 1163125 310
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple	2256 310 4242424
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop	2256 310 4242424 3456
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L.	2256 310 4242424 3456 3501
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest	2256 310 424244 3456 3501 40423
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango	2256 310 424244 3456 3501 40423 42401
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management	2256 310 424244 3456 3501 40423 40423 42401 445001
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management Videotex Productions	2256 310 424244 3456 3501 40423 42401 445001 445001 234005
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management Videotex Productions CONCERTS	225631042424434563501404234240144500123400521
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management Videotex Productions CONCERTS Agetel 222	225631042424434563501404234240144500123400521
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management Videotex Productions CONCERTS Agetel 222 CONFERENCE PLANNING	
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management Videotex Productions CONCERTS Agetel 222 CONFERENCE PLANNING & FACILITIES	
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management Videotex Productions CONCERTS Agetel 222 CONFERENCE PLANNING & FACILITIES Deakin University	
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management Videotex Productions CONCERTS Agetel 222 CONFERENCE PLANNING & FACILITIES Deakin University TAA	22563104242424345635014042342401450012340051221222215
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management Videotex Productions CONCERTS Agetel 222 CONFERENCE PLANNING & FACILITIES Deakin University TAA U.N.E.	
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management Videotex Productions CONCERTS Agetel 222 CONFERENCE PLANNING & FACILITIES Deakin University TAA	
Microbee Systems COMPUTING SERVICES ACI Computer Svcs Apple Cable Shop I.C.L. Software Digest Tango Videotex Management Videotex Productions CONCERTS Agetel 222 CONFERENCE PLANNING & FACILITIES Deakin University TAA U.N.E. CONFERENCES	

- SUBJECT-INDEX-

MICRO-EDUCATIONAL PTYLTD



AUSTRALIA'S LARGEST DIRECT MAIL COMPUTER SUPPLIER NOW ON...

FOR ALL YOUR COMPUTER SUPPLIES

- DISKS & STORGE BOXES
 PRINTERS
 MODEMS

- SCREENS
- PAPER
- PERIPHERAL CARDS

PAGE *49001#

MAIN OFFICE: **40 LAMAN ST** NEWCASTLE POSTAL ADDRESS: PO 154 CHARLESTOWN 2290

STD FREE ORDER HOTLINE (008) 02 5229

Enquiries: (049) 26 4122





AUTOMATIC ICE COMPANY

- Offers a range of Intelligent Videotex and High Speed Modems for most computers.
- Intelligent Internal Card Modems for Apple and IBM. These are auto-answer, autodial, with Videotex Software within the Modem EPROM and immediately operate with a single keystroke.
- All Modems have battery backed CMOS memory for permanently storing phone numbers, messages, ID numbers and log on strings when the modem is switched off.
- Speeds up to 9600 B.P.S. on ORDINARY DIAL UP telephone lines with optimal high speed attachment.

Dealer Enquiries Invited • Aggressively Priced

10 Smith Street, Charlestown 2290 N.S.W. PAGE 49004

(049) 63 3188

- SUBJECT-INDEX-

Microtex 666	66641
RACI-Chemistry	5515
Videotex Management	
The Western Front	30805
CONSERVATION	12521
CONSULATES	11641
Foreign Affairs Dept	6782
Tranztel	
CONSULTANTS(Videotex)	11812
AAV Australia	
Ace Videotex	414900
Adis-Meditel	65415
Cable Shop	34511
Maynetex	56521
OTT	30001
Supertext	5009
Tango	42401
TechMedia	789000
Tranztel	3650
Videotex Management	445
Videotex Productions	234006
vtx	4040

communication

Australia's leading videotex marketing organisation 345 Phone (02) 411 4666

343 Filone (02) 411 4000	
CORRESPONDENCE COURSES	12923
Deakin University	4543
Mentor	
TAFE WA	88812
U.N.E.	5000113
CREDIT CARDS	
American Express	269
BNP	33108
Commonwealth Bank	555021
National Australia Bank	
State Bank of SA	
State Bank of Victoria	
Westpac	3333
CREDIT UNIONS	1122
Satisfac	7890
CROP SCIENCE	
CSIRO	23272
CROPS & FERTILIZERS	11412
CUG	37

CUSTOMER DIRECTORY	1035
CUSTOMER DIRECTORY SEARCH	10351

DATA COMMUNICATIONS.....

ACI Computer Svcs	310
Agetel 222 Apple	222
Apple	4242424
ATUG	38090
Butler Cox	40422
Cable Shop.	
Computerphone	
Hewlett Packard	
I.C.I.	350
Maynetex	565
Metrotel	
OTT	3000
Tango	42426
Telecom Information	811
Videotex Management	.44501214
Videotex Productions	
DATES OF EVENTS	1115
Agetel 222	2222154
ATUG	3005
Austrade	
Cable Shop	345502
Deakin University	
Microtex 666	66641
RACI-Chemistry	5515
Videotex Management	
The Western Front	
DEAFNESS	12517
Supertext	
SydH Occ*Haz	77724
DEGREE COURSES	12931
DIETING	1272
Adis-Meditel	
DIETS & NUTRITION	
Adis-Meditel	
Pozzani Water Purifiers	
CSIRO	
DIGESTS & REVIEWS	1114

DIRECTORIES & ENCYCLOPEDIAS	12511
Adis-Meditel	65455
The Henley Computer	.2358120
Mentor	
Supertext	
Tastel	7657
Viatel Directory	8041
Viatel Telex	8164
Videotran	2505
Yellow Pages	444



INTERNATIONAL TELEX/FAX DIRECTORIES' (071) 47 1263. AVIA & ATUG Member.

DISABILITY INFORMATION	12517
Ansett Airlines	767614
Supertext	
SydH Occ*Haz	
DRUG INFO. (Professional)	
Adis-Meditel	6542
SydH Occ*Haz	7770



ECOLOGY	125211
CSIRO	23272
ECONOMIC COMMENT	
BNP	3310
C & L W D Scott	
Cable Shop	345302
Commonwealth Bank	555316
Money Watch	6000
National Australia Bank	88008
Private Briefing	40427
State Bank of Victoria	
Tranztel	3651
Westpac	881741
ECONOMIC STATISTICS	
ANZ Bank	89913
C & L W D Scott	380251
Commonwealth Bank	555316
Money Watch	60062



The service is under development and is open for inspection on Viatel node *444#

National Australia Bank	88008
State Bank of Victoria	60312
Tranztel	365
EDUCATION	129
EDUCATION COURSES	1293
EDUCATION NEWS	11132
Agetel 222	222213
Deakin University	
Supertext	50034
EDUCATIONAL ADVICE	125221
Agetel 222	222213
Deakin University	
RACI-Chemistry	
R.A.I.A. Archidata	
TAFE WA	
U.N.E.	
Videotex Management	

Educational Resources AV Equipment Advice for Schools

Educational Technology Centre (S.A.) *507#



- SUBJECT - INDEX -

ELECTRICAL APPLIANCES	
(Classified Ads)	1219216
Microtex 666	
ELECTRONIC PRODUCTS	178
ABE Computers	72901
Adlib	
Apple	4242424
Barson Computers	
Cable Shop	
Commodore Computers	
The Computer Shop	490090
Dick Smith Electronics	345722
Discware	778000
The Henley Computer	235753
Hewlett Packard	34535
Infofront	2489
Information Access Co.	490411
Micro Educational	49001
Microbee Systems	22521
Nashua Discs	42427
Olivetti	424560
Tango	424021
Videotex Productions	
EMBASSIES	
Foreign Affairs Dept	6782
Tranztel	
EMPLOYMENT	
EMPLOYMENT CLASSIFIED ADS	
Adis-Meditel	
ATUG	3003
AVIA	
BSS-Temptel	
C & L W D Scott	380254
Cable Shop	345709
PA Consulting Services	
U.N.E.	
EMPLOYMENT LAW	
Confed of W.A. Industry	
Vic Emp Fed. EMPLOYMENT STATISTICS	11554
C & L W D Scott	
Commonwealth Bank	
Money Watch	
National Australia Bank	
State Bank of Victoria	
Vic Emp Fed	

EMPLOYMENT TERMS	
& CONDITIONS.	116333
Vic Emp Fed	505
ENCYCLOPEDIAS	
The Henley Computer	
ENERGY (Advice)	
CSIRO	
ENERGY (Scientific Aspects)	
CSIRO	
Mindata	
ENGINEERING EDUCATION	
TAFE WA	
ENTERTAINMENT	
Agetel 222	
ENVIRONMENT	
ESTATE AGENTS	
Frederick Owen and Associates	
TechMedia	
EVENTS	
Agetel 222	
Austrade	
Cable Shop	
Deakin University	
Microtex 666	
RACI-Chemistry	
Videotex Management	
The Western Front	
EXCHANGE RATES	
ANZ Bank	
BNP	
Commonwealth Bank	
Currency Brokers-Aust	
DBSM	
Money Watch	
National Australia Bank	
State Bank of N.S.W.	AND THE RESERVE OF THE PROPERTY OF THE PROPERT
Tranztel	
Westpac	3332011

FAMILY HISTORY	124213
Adlib	707052
Information Access Co.	49002

- SUBJECT-INDEX-

FARM MANAGEMENT	11414
Agtex State Bank Vic	381
CSIRO	232211
FERTILIZERS & CROPS	11412
FESTIVALS	1221
Agetel 222	222215
FIELD CROPS	
CSIRO	23272
FILMS	1221
Agetel 222	2222157
FINANCIAL FUTURES	
ANZ Bank	899144
Commonwealth Bank	555314
Money Watch	
National Australia Bank	
Tranztel	36521
FINANCIAL INSTITUTIONS	1122
ANZ Bank	8991
BNP	3310
B.N.P. Pacific	
Commonwealth Bank	
National Australia Bank	



Satisfac Credit Union

Registered Office: 151 South Tce, Adelaide. South Australia. 5000 Postal Address: P.O. Box 371, Unley, South Australia, 5061 Tel: (08) 212 4122 Telex: AA 89463 Telegrams: Satisfac Unley.

USING TECHNOLOGY FOR THE BENEFIT OF THE EDUCATION COMMUNITY

- Computerised Information Services
- Computerised Bill Paying
- AUSTNET the around Australia access network
- Satisfac Tech Shop specialising in popular brands & equipment

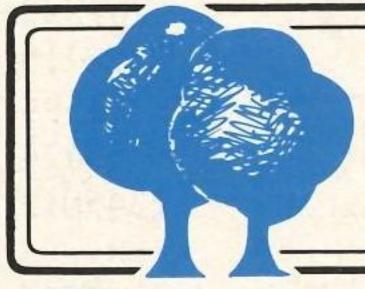
... BECOME PART OF THE COMPUTER AGE ... CALL SATISFAC ON 2124122 TODAY.

Satisfac	7890
State Bank of N.S.W.	
State Bank of SA	3630
State Bank of Victoria	60311
State Building Society	
Videotex Productions	
Westpac	
FINANCIAL NEWS	
FINANCIAL SERVICES	
FINANCIAL & INDUSTRIAL	
STATISTICS	11553
Commonwealth Bank	555316
Mindata	

6008
8800
60312
365
333201
1219217
77416
12516
65454
151
124217
4081
127
11231
89911
33102
55532
382801
881884
4811
88001
402114
36524
3332011
114121
38166



GAMES TO PLAY ON V	/IATEL 1222
GARDENING	124217
D4 Data	4081



GARDEN DATA INCLUDING GARDEN TELESHOP

*4081#

GASES	1002
CIG Special Gases	551050
GATEWAY INDEX	
Agtex State Bank Vic	38164
Commonwealth Bank	
DBSM	88188

- SUBJECT - INDEX -

TAB W.A. Viabet	60613
Viatel Mailbox Directory	10351
GENEALOGY	124213
Adlib	707052
Information Access Co.	49002
GIFTS	10021
GOLD PRICES	113311
Money Watch	48115
GOODS FOR SALE	
GOVERNMENT INFORMATION	12531
GOVERNMENT PUBLICATIONS	125315
Austrade	
Telecom Information	
GOVERNMENT SERVICES	12531
GRAFFITI	12226
Access Nth Queensland	64606
I.C.L	
Oceana Promotions	878125
GRAPHICS ON VIATEL	12424
AAV Australia	222414
Cable Shop	345127
Databasics	3591
GEC Digital	73582
I.C.L	35053
Tango	4240143
Tranztel	3650
Videotex Productions	234523
GREETING CARDS	1033



HALLEY'S COMET	12532
Ansett Airlines	767222
CSIRO	2323115
Databasics	3594
TAA	53414
Videotex Productions	2345013
HANDICAPPED PERSONS'	
INFORMATION	12517
Ansett Airlines	767614
Supertext	50060
SydH Occ*Haz	7770
HEALTH	
Adis-Meditel	6545
CIG Special Gases	551051

23555
235751
2500
5514
7770
11632
.77663
551051
5514
7770

SYDH OCC*HAZ

For fast, up-to-date information on * work hazards * safety programmes * health and safety committees and * recognition and treatment of work-related health problems

*777#



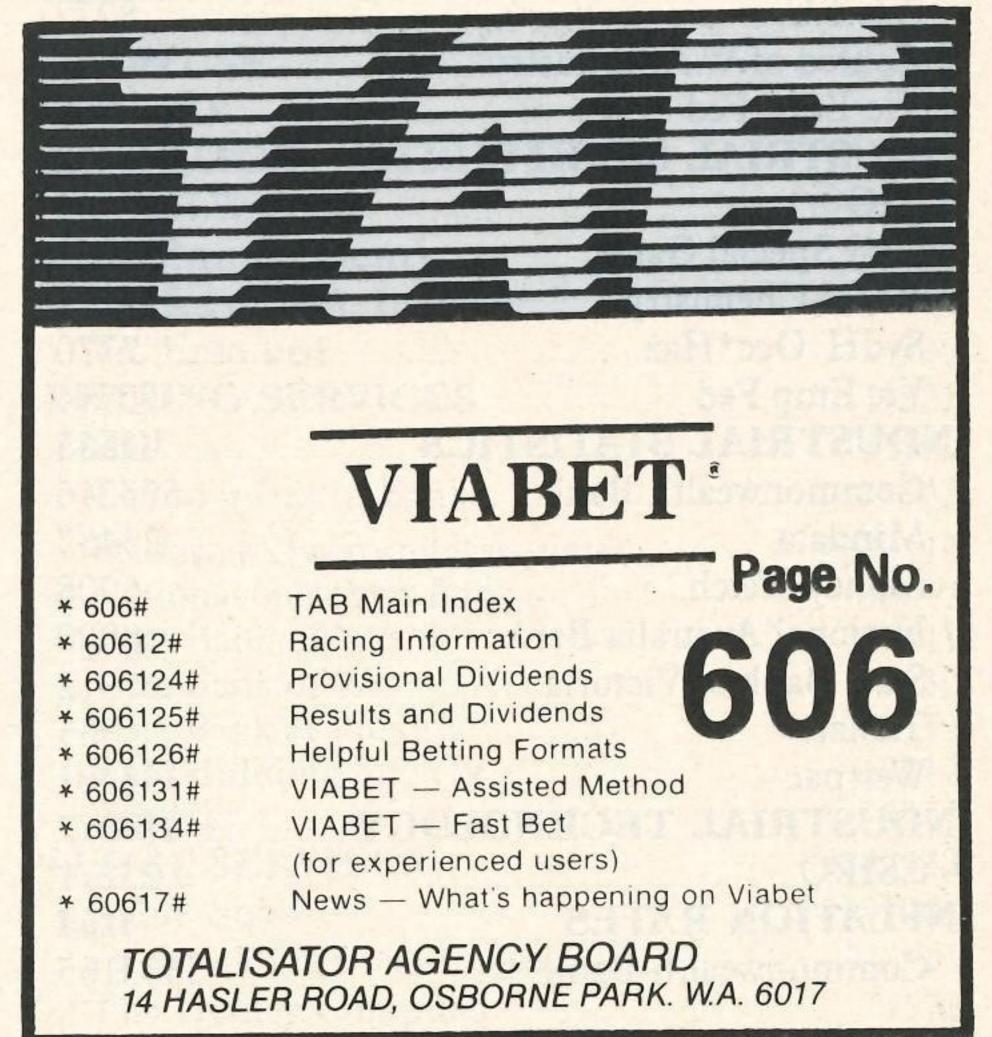
Sydney Hospital Occupational Health and Safety Service Tel 230 0111

Vic Emp Fed	50514
HEALTH EDUCATION	
TAFE WA	8881224
HEALTH INSURANCE	12524
Adis-Meditel	6547
HEALTH NEWS	11134
Adis-Meditel	654011
SydH Occ*Haz	7779
HELP & ADVICE AGENCIES	
Agetel 222	222214
Connexions	
Wesley Central Mission	
HOBBIES	12421

- SUBJECT - INDEX -

HOLIDAY ACCOMMODATION	158
HOLIDAY ADVICE	12527
Adis-Meditel	65456
Agetel 222	2222152
Ansett Airlines	767
Cable Shop	34524
Databasics	
Foreign Affairs Dept	678
Orpheus Island	
Tasmania Be Tempted	700
Tranztel	
Videotex Productions	2345014
HOLIDAYS	15
HOME BANKING	1001
Commonwealth Bank	5555
HOME LEARNING	12923
Deakin University	4543
Mentor	
TAFE WA	
U.N.E.	
HOME LOANS	1122614
AEtna	
Commonwealth Bank	
Frederick Owen & Associates	
National Australia Bank	
State Bank of SA	
State Bank of Victoria	
State Building Society	
TechMedia	
Westpac	
HOME MAINTENANCE	
CIG	
CSIRO	
Databasics	
R.A.I.A. Archidata	
HOMEBANKING	
Commonwealth Bank	
Gommonwearen Dame.	
HOROSCOPES	1227
Ace Videotex	
The Henley Computer	23599
The Western Front	
HORSE RACING	1944
Barda	
TAB Victoria	
TAB W.A. Viabet	
Tele-Tips	437

HORTICULTURE	114123
CSIRO	23273
D4 Data	4081
HOTEL BOOKINGS	10031
Cable Shop	3453815
Flag Inns	
Homestead Motor Inns	
Orpheus Island	4243778
Tasmania Be Tempted	
HOUSE BUILDING & REPAIRS	
CIG	776122
CSIRO	2321
Databasics	359070
R.A.I.A. Archidata	731
HOUSEHOLD APPLIANCES	1259317
Cable Shop	345704
Dick Smith Electronics	
Simpson Ltd	5571
HOUSEHOLD HINTS	
GEC Digital	735837
Simpson Ltd	5570
HOUSES AND FLATS FOR SALE	
Microtex 666	666172070
National Trading Post	
THE RELATIONS OF SHORT AND ASSESSED.	



* REGISTERED TRADEMARK T.A.B. W.A.

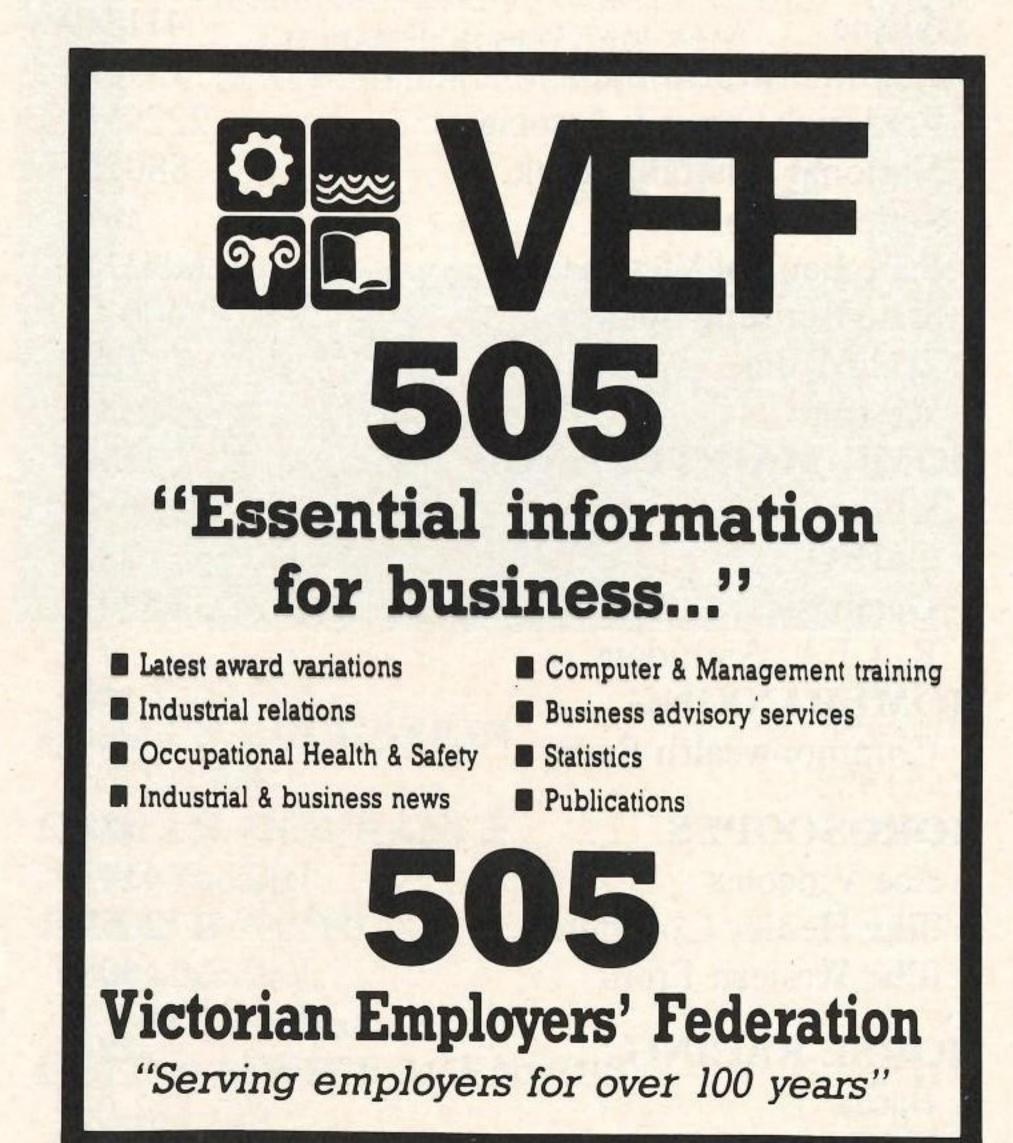
SUBJECT INDEX =

HOUSING	12526
R.A.I.A. Archidata	
HOUSING LOANS	
AEtna	
Commonwealth Bank	555023
Frederick Owen & Associates	
National Australia Bank	
State Bank of SA	3634
State Bank of Victoria	6031113
State Building Society	400121
TechMedia	7890
Westpac	

	1			
TR	T	-	T	76

INDUSTRIAL GAS	10022
CIG Special Gases	551050
INDUSTRIAL AWARDS	
Vic Emp Fed	50511
INDUSTRIAL CHEMISTRY	
RACI-Chemistry	551
CIG Special Gases	551050
INDUSTRIAL RELATIONS	
A.C.T.U.	8272
Confed of W.A. Industry	380301
Vic Emp Fed	505
INDUSTRIAL SAFETY	11632
CIG	
CIG Special Gases	551051
RACI-Chemistry	5514
SydH Occ*Haz	7770
Vic Emp Fed	50514
INDUSTRIAL STATISTICS	
Commonwealth Bank	
Mindata	
Money Watch	6008
National Australia Bank	
State Bank of Victoria	
Tranztel	
Westpac	333201
INDUSTRIAL TECHNOLOGY	
CSIRO	23271
INFLATION RATES	
Commonwealth Bank	5553165

Money Watch	600621
National Australia Bank	88008
INFORMATION SCIENCE	
Cable Shop	
Videotex Management	
INFORMATION SERVICES	1185
Agetel 222	
Butler Cox	40422
Cable Shop	
Information Access Co	
Maynetex	565
OTT	
Videotex Management	44501213
INFORMATION TECHNOLOGY	11824
INSURANCE (Personal)	1122613
AEtna	4113
American Express	269815
Cable Shop	
Commonwealth Bank	
N.R.M.A.	2463
Westpac	3335



- SUBJECT-INDEX-

INCLIDANCE LINEED CAUTIOO	1100011
INSURANCE-LINKED SAVINGS	
AEtna	
B.N.P. Pacific	
Commonwealth Bank	
National Australia Bank	
State Bank of SA	
State Bank of N.S.W.	
State Bank of Victoria	
State Building Society	
TechMedia	7890
Westpac	
INTEREST RATES	11233
BNP	3310
Commonwealth Bank	5550
DBSM	881883
National Australia Bank	88003
State Bank of Victoria	60312225
State Building Society	
Tranztel	
Westpac	
INTERNATIONAL INFORMATION.	
ANZ Bank	
BNP	
Butler Cox	
Cable Shop	
Commonwealth Bank	
Mindata	
National Australia Bank	
Tranztel	
Westpac INTERNATIONAL NEWS	1917
The state of the s	
Agetel 222 Cable Shop	22221113
Cable Snop	34530
Electronic Newspaper Tranztel	34507
INVESTMENT	
AEtna	
ANZ Bank	
BNP	
B.N.P. Pacific	
Cable Shop	
Commonwealth Bank	NOT THE RESERVE THE PROPERTY OF THE PROPERTY O
National Australia Bank	
State Bank of N.S.W.	
State Bank of Victoria	60311
State Bank of SA	3630
State Building Society	40011

Tranztel	3653
Videotex Productions	23450011
Westpac	
INVESTMENT TRUSTS	



JOKES	12225
Ace Videotex	
GEC Digital	
The Henley Computer	
Supertext	



CITCHEN EQUIPMENT	1275
Pozzani Water Purifiers	2500



LAND USE	125215
CSIRO	23273
LANGUAGE INSTRUCTION	1293119
TAFE WA	8881229
LAW(Employment)	
Confed of W.A. Industry	
Vic Emp Fed	
LEASING SERVICES	
BNP	33101
Commonwealth Bank	55502
Frederick Owen and Associates	2229113
National Australia Bank	88017
State Bank of N.S.W.	402111
State Bank of SA	3630
State Bank of Victoria	
State Building Society	40012
Westpac	33331
LEGAL SERVICES	1163123
Cable Shop	34591001
Frederick Owen and Associates	222911

The Henley Computer

23571

- SUBJECT-INDEX

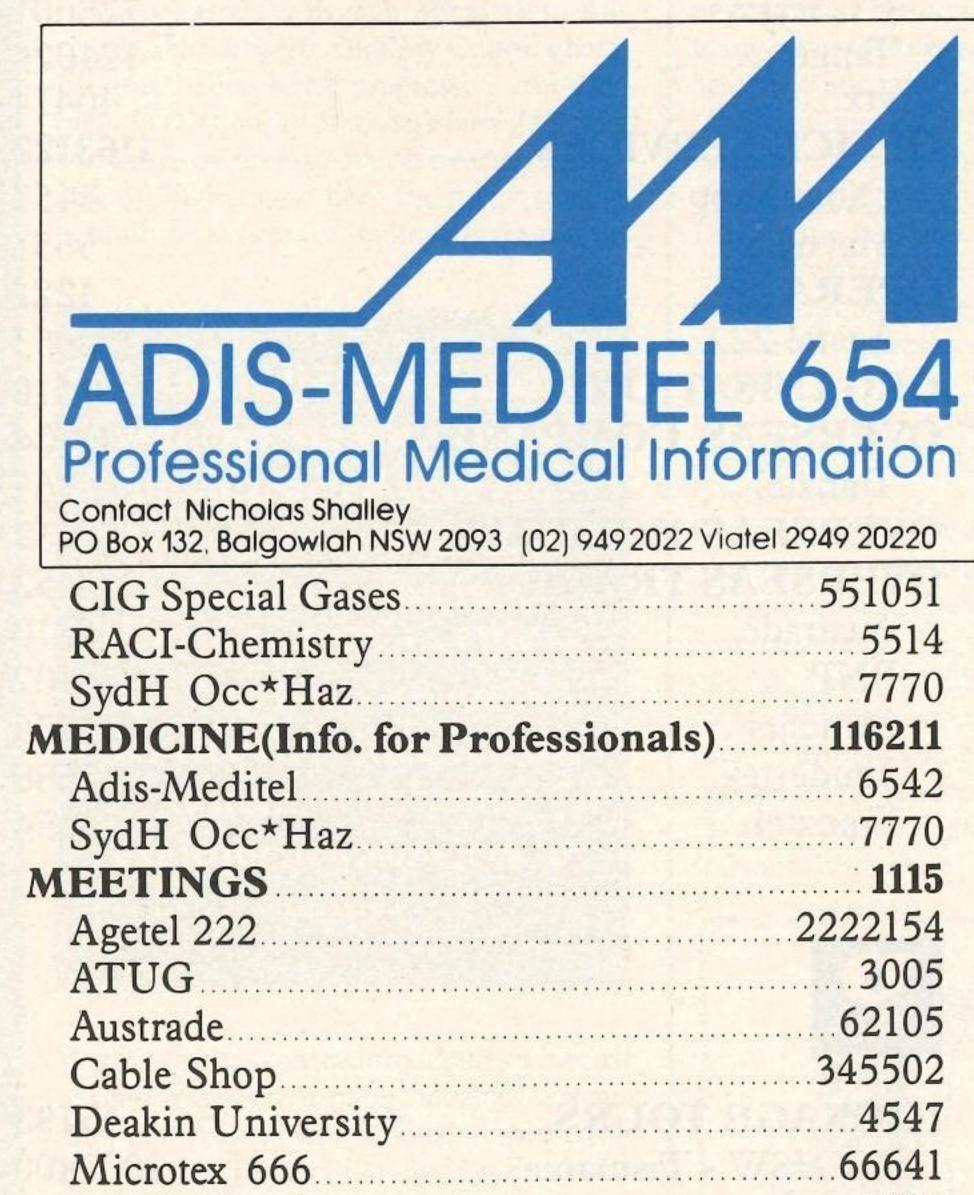
E ENDEVIDED A COMPANION	
LEISURE ACTIVITIES	
LIBRARY SCIENCE	
Cable Shop	
Videotex Management	
LIFE INSURANCE	
AEtna	
American Express	269815
LIVESTOCK	11411
Agtex State Bank Vic	3811
Barda	
CIG	77600
CSIRO	23271
Tranztel	3657
LOANS & LEASING	11221
BNP	
Commonwealth Bank	
Frederick Owen and Associates	
National Australia Bank	
State Bank of N.S.W.	
State Bank of SA	
State Bank of Victoria	
State Building Society	
Westpac	
LOANS(Personal)	1122615
Commonwealth Bank	
National Australia Bank	
State Bank of N.S.W.	
State Bank of SA	
State Bank of Victoria	
State Building Society	
LOGIC GAMES	12222
Ace Videotex	41410
ACP 443	
Adlib	707054
Astra Games	
Cable Shop	
GEC Digital	
The Henley Computer	
The Western Front	308400
LONELY HEARTS	
Connexions	
LOTTERY RESULTS	
Oceana Promotions	

M

The state of the s	
MAGAZINES	12111
Agetel 222	222219
	359039
The Henley Computer	
Microtex 666	66614
MAIL ORDER	
ABE Computers	
Ag Supplies	
American Express	
Cable Shop	
CIG Special Gases	551050
D4 Data	
Discware	
E.T.C	
Electronic Mail	
Fishnet	
Gemini Mail Order	2355
The Henley Computer	23575
Infofront	
Micro Educational	
Microtex 666	
Pozzani Water Purifiers	2500
TechMedia	789002
Trumpcard International	789050
Videotex Management	
Videotex Productions	
Videotran	250
Viewtel	7711
Wesley Central Mission	3822014
The Western Front	3080
MAILDON	400
MAILBOX DIDECTORY CEARCIT	103
MANACEMENT CONCLUTANTS	
MANAGEMENT CONSULTANTS	
Videotex Management	4450109
MANACEMENT COMPOSE	
MANAGEMENT COURSES	4000404
(Tertiary)	
Deakin University	45424
TAFE WA	8881225

SUBJECT - INDEX -

MARKET RESEARCH	1183
Butler Cox	40422
Cable Shop	
The Henley Computer	
Tango	42401
vtx	
MARKETING	
Butler Cox	40422
Cable Shop	
The Henley Computer	2350
Tango	
vtx	
MASSAGE PRODUCTS	
Gemini Mail Order	
MEDICAL ADVICE	12516
Adis-Meditel	Control of the Contro



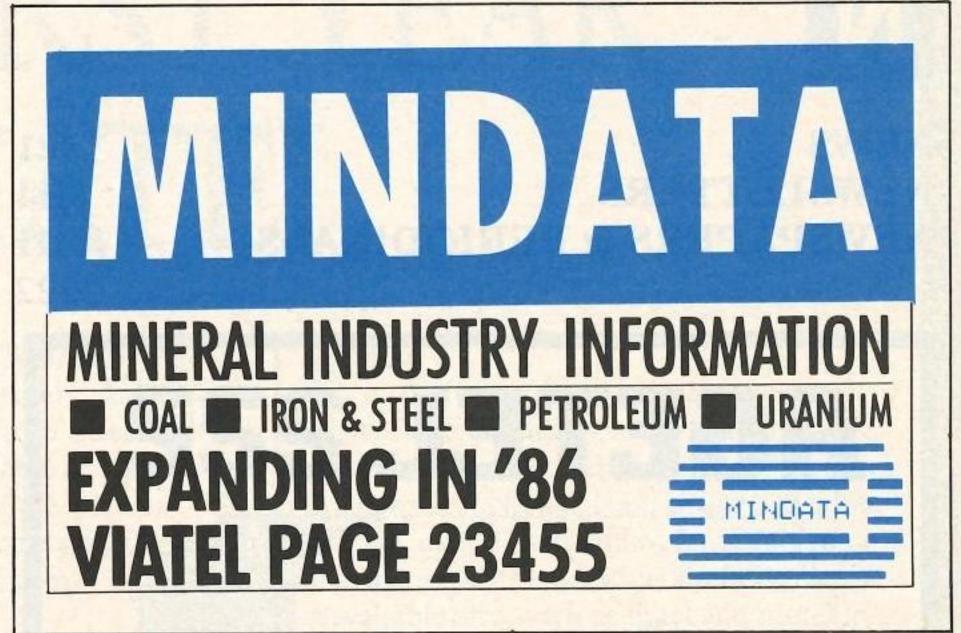
Videotex Management.......44501216

MESSAGES

Mindata

METAL PRICES 113311

Money Watch	48115
METRIC CONVERSION	12528
Viewtel	77121
MICROCOMPUTERS	17
MINERALS & ENERGY	118276
CSIRO	23272
Mindata	23455



MONEY MARKETS	11222
MORTGAGES	
AEtna	
Commonwealth Bank	
Frederick Owen & Associates	
National Australia Bank	
State Bank of SA	
State Bank of Victoria	
State Building Society	
TechMedia	7890
Westpac	
MOTEL BOOKINGS	
Cable Shop	34538
Flag Inns	6989
Homestead Motor Inns	3663
Orpheus Island	4243778
Tasmania Be Tempted	70021
MOTOR INSURANCE	
N.R.M.A.	2463
MOTORING	12518
Databasics	359071
Dick Smith Electronics	345722
N.R.M.A.	2461
MUSIC	
Oceana Promotions	87810

MUSIC EQUIPMENT	
(Classified Ads)	1219221
Microtex 666.	
MUSICAL PERFORMANCES	1221
Agetel 222	222215

MUSICEQUIPMENT	
(Classified Ads)	1219221
Microtex 666	
MUSICAL PERFORMANCES	1221
Agetel 222	222215



NEWS	121
NEWSLETTERS	1114
NEWSPAPERS & PERIODICALS	12111
Agetel 222	2222



Databasics	359039
The Henley Computer	23560
Microtex 666	
NIGHT LIFE	1221
Agetel 222	222215
NUMEROLOGY	1227
The Western Front	3085

NUTRITION	1272	
Adis-Meditel		
CSIRO		



OCCUPATIONS & PROFESSIONS	1162
OFFICE EQUIPMENT	11638
Apple	4242424
Barson Computers	
Cable Shop	3457
Computerphone	80041
Infofront	2489
Maynetex	5653
P C Extras	
Tango	424026
vtx	
OFFICE SERVICES	
Cable Shop	
Maynetex	
OPERA	
Agetel 222	
ORGANISATIONS	116
OVERSEAS COMPANIES	11634
Tranztel	365
OVERSEAS HOLIDAYS	152
OVERSEAS TRADE	1152
Austrade	6210
BNP	33107
Mindata	23455
Tendertex	7680
Tranztel	3654

PACKAGE TOURS	15793
Air NSW - Tasmania	7009400
Ansett Airlines	7672
Comm Bank Travel	5552
Databasics	
East West Air - Tasmania	7009
State Bank of N.S.W.	4021120
TAA	534
Subect Index continues p.57.	

AGOOD FIRST YEAR Lindsay Cunningham talks to Les Cardilini

TIATEL's progress in its first twelve months of operation has more than pleased its Branch Manager in Aus tralian Telecom, Mr. Lindsay Cunningham. Lindsay believes the progressive improvement in the quality of its data base generally and the range of new services becoming available on Viatel, have been the major reasons behind the success of its introduction here.

Australia's national videotex service Viatel, has attracted over ten thousand users since its introduction in February 1985 and there are currently about 150 Service Providers on the system, with some exciting new services to come.

Viatel's success contrasts markedly with that of some less popular public videotex systems around the world which failed to gain effective market penetration and were closed down. Canada and the United States of America were among those countries which had experienced such problems, Lindsay points out.

Data processing and Interaction

The diversity of applications and services on Viatel is enhanced by the new, data processing, Gateway which is used by such highly interactive services as those provided

by the West Australian Totalisator Agency Board and the Trawler Owners' Association of Australia. Introduction to these and the many other facilites available to Viatel users has been encouraged by the popular 'free time' sessions which become available at advertised times on the system.

Free Time On Viatel

During the free time sessions users are no charged Viatel connection time fees and can browse through index frames and services, to acquaint themselves with what is widely available on Viatel. Statistics indicate that up to 200 users have been on the system simultaneously during the free-time sessions User Interests

Clearly, users' interests divide between what might be described as business and domestic applications. The banking and stocks and finance services are well supported on the one hand and, on the other, the entertainment and leisure services are attracting many users. Personal computer owners in particular are finding the telesoftware services useful and a practical way of building up their software libraries.

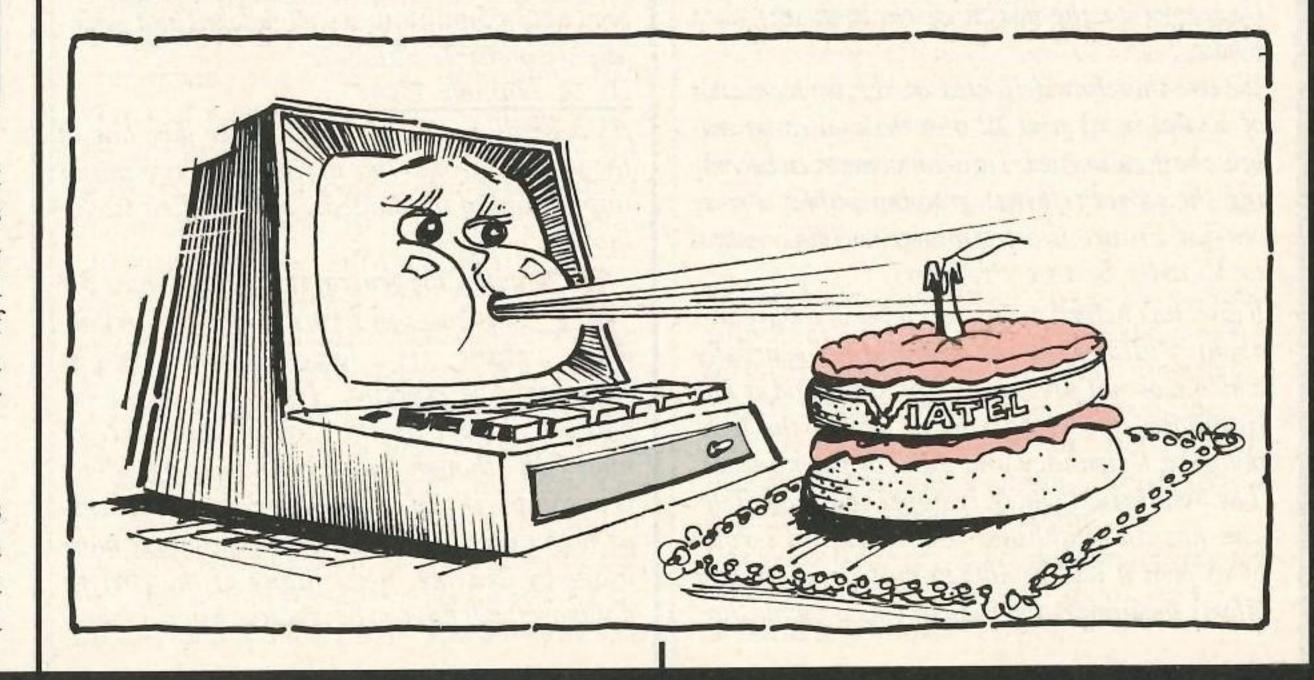
Business

Of course, other important business services on Viatel include those provided by the travel, tourist and entertainment industries, to name a few. National rail, airline and other services include schedules, fares and route information. Other, destination information is available also, such as hotel and motel locations facilities and tariffs.

Lindsay reports that the services on Viatel that attract the most usage are MoneyWatch, Microtex, Telebank and the Viatel messaging service.

MoneyWatch, with its rapidly updated financial information and range of highly informed commentaries on the business world is very popular with the Viatel Users.

he big attraction to the home user is Microtex, with its home computer software, bulletin boards, and infor mation on personal computers. The growth rate is high and there is a large pool of micro computer owners who are potential Viatel users who are progressively moving on to Viatel as it becomes more widely known and accepted in the country.



The Commonwealth Bank's Telebank service was one of Viatel's very early trigger services and is retaining its position near the top of the ladder in the SP popularity stakes. It enables users to do their banking from home or office and also to pay bills. The number of companies on the list of bill payees is now well over 100 and includes a number of local councils, American Express, Gas Companies, Diners Club, TAA, Telecom itself and others.

As would be expected the messaging service usage is rising very quickly as the number of users any one user can message to, grows continually. This service could well become the single most popular service on the system.

Telex Development

Messaging, or electronic mail, should feel a further boost in popularity around mid-1986 when it is intended to give Viatel users two-way access so that users can receive as well as send Telexes, and also provide access to the International Telex System. At present, Viatel users can only send messages to the Telex network within Australia.

Summing Up

Viatel's first year must be considered a great success Lindsay said.

'With Viatel now firmly

established as Australia's leading

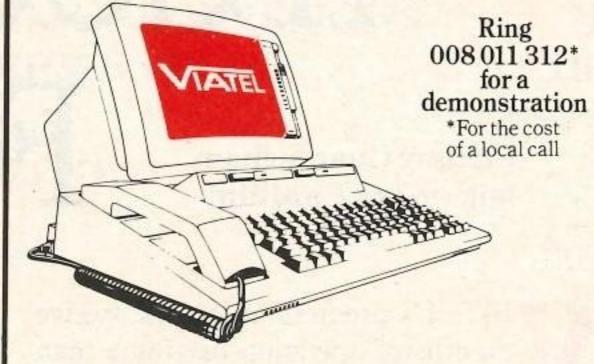
videotex service, we

have a great base to build on.

Over 12,000 users, a group of professional Service Providers and the Viatel team itself, which I believe has played the crucial role in establishing Viatels current success.' Lindsay concluded saying 'I am sure the next year will be even better, Viatel users have a lot to look forward to.'



- Advanced telephone
- Personal computer
- Database access terminal
- Electronic messaging terminal





THE MAN WITH THREE HATS

'or is it the mad hatter?'

ony Cohen is Managing Director of ACE Videotex services. He is in the unique position of being a Viatel user, a Viatel Service Provider and president of the Australian Videotex Industry Association (AVIA). Mr Cohen's association with Viatel therefore is very widely based. He had these views to offer on Viatel's first year of service.

As Chairman of AVIA

The industry association in Australia has long recognised the importance of a successful public service to the health of the industry as a whole.

We are therefore delighted at the performance of Viatel in its first 12 months and congratulate those concerned. Its achievement in becoming the world's fastest growing public service outside France is a testimony to Telecom and to Viatel's Service Providers.

Viatel has helped to create a level of awareness about Videotex in the community generally which was not previously apparent and it has stimulated the private sector giving the technology a legitimacy and aura of permanence. The association sincerely hopes that now Telecom has an established and successful service of its own it will be able to make even greater efforts to support the industry as a whole dur-

ing Viatel's 2nd year.

As Managing Director — ACE VIDEOTEX
As Viatel's first Service Provider and probably the first to show a profit from the service
(operating profit from month 2) ACE VIDEOTEX wishes to express its satisfaction with
Viatel's efforts during the first 12 months. Not
only has Telecom succeeded in sustaining a high
level of new registrations each month (a factor
of critical importance to the revenue of many
SPs), it has also been responsive to requests
and prepared to deal with problems. Through
Sascha Giles-Peters and her team they have
been able to maintain a well indexed and generally responsible database.
As 'A Humble User'

As a regular user of Viatel since day one of the service I would like to record my two major impressions of the database over the first twelve months.

databases in terms of content and designs is lower than might reasonably be expected. This is no doubt explained in part by the lack of experience of most SPs (though I understand expert advice is available if required!), however for the service to continue to flourish and to encourage more usage by existing users, many of the current databases will have to be replaced by ones which

on the other side of the coin however, a particularly pleasing aspect of the first year has been the liveliness of the database, especially the consistent increase in new SPs and services. This has helped to keep Viatel vibrant and up to date and has, I am sure, led to many users assessing the service regularly to keep up to date with 'what's new'.



VIATEL FOR THE PERSONAL COMPUTER USER

Stephen Withers *

s 75% of Viatel subscribers access the

system with personal computers

rather than dedicated terminals, it

is not surprising that more and more service

providers are targetting this group of users.

Some importers and manufacturers of per-

sonal computers have been quick to realise

the potential of Viatel as a communications

channel between themselves and their deal-

ers and customers. Commodore and Apple

both provide product descriptions and lists

of dealers in various parts of the country.

Response frames are provided to allow users

to send messages to the appropriate compa-

ny and to place orders with participating

Information about the Apricot and BBC

ranges is provided by Barson Computers.

This company has also tested the water in

respect of telesoftware by loading a typing

tutor program for the BBC into their data-

base. Microbee (one of the select band of

companies that actually designs persona

computers in Australia) has a fair-sized data-

base that includes a magazine section that

is sure to be of interest to the company'

customers. Other features are a catalogue and

Several other companies in the personal com-

puter market (including Sendata, Olivetti,

and Hewlett Packard) have placed product

information on Viatel. Some businesses go

further and provide teleshopping facilities.

A wide variety of goods and services from

audio equipment to wine can be purchased

by filling in a Viatel response frame (quot-

Personal computer users are likely to be par-

ticularly interested in the range of goods

offered by Brainstorm, Micro-Educational,

Discware, Dick Smith Electronics, ABE

Computers, and Nashua. These companies

provide teleshoppers with the opportunity

to purchase computers, programs, accesso-

ries, and consumables. I would stress that

ing a credit card number, of course).

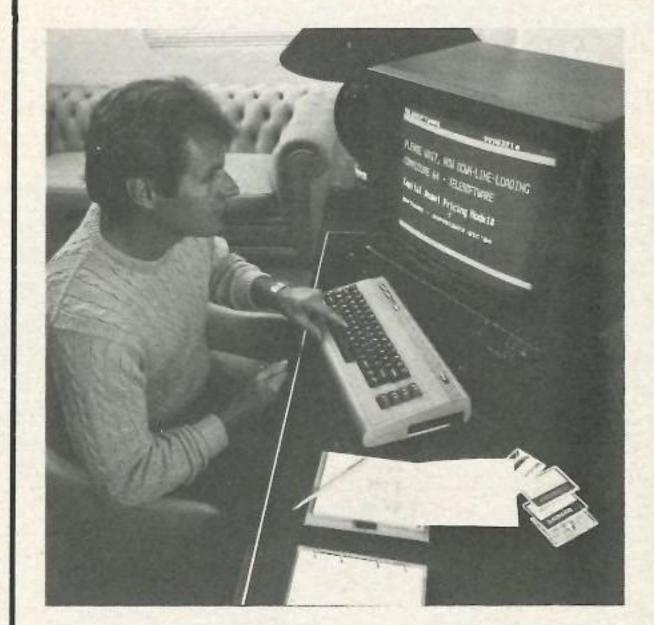
a list of stores and dealers.

Magazines catering for the personal computer user are also becoming involved with Viatel.

this is not a comprehensive list, and that my only connection with any of these companies is as a customer.

Telesoftware is being provided by companies other than conventional publishers. Microtex 666 (described in detail elsewhere in this magazine) is a prime example, with an extensive telesoftware library containing hundreds of programs that may be downloaded into a personal computer for later use as well as bulletin boards, classified advertisements, technical information, news items, and games. Tango, a Viatel umbrella organi sation with a number of customers catering for the personal computer market, has a collection of three programs, with the promise of a bigger range to come. Tastel (an umbrel la for Tasmanian organisations) provides pair of programs for the BBC micro.

Magazines catering for the persona computer user are also becoming involved with Viatel.PC Australia (a magazine aimed specificially at users of the ubiquitous IBA Personal Computer) recently introduced service on Viatel for the benefit of its sub scribers. The database includes an index to the magazine and a list of the ten best-selling programs for the IBM PC, with plans to expand to telesoftware and reader surveys. Some people consider microcomputer users to be insatiable game players. While this is a gross exaggeration, there is a grain of truth in it as even the most unlikely people may sometimes be heard discussing the intricacies of some game or other. Although most of the games provided on Viatel are for one person, the system provides a useful vehicle for multi-player games. Many possibilities exist,

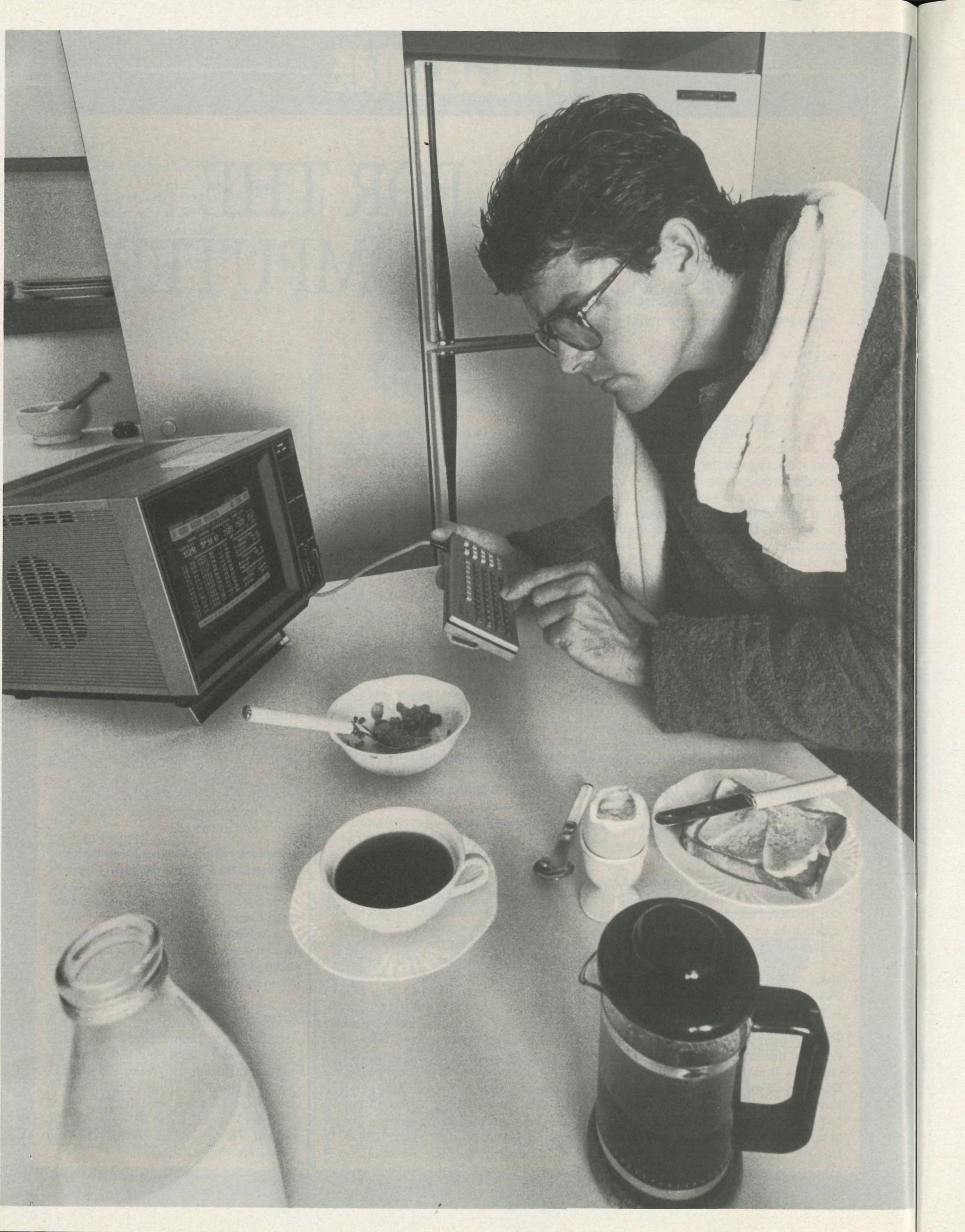


but the early developments revolve around conquest and colonisation. 'Play by mail' is not uncommon in many games (chess is a good example), but 'play by Viatel' would reduce the delays imposed by the postal service without losing the fascination of competing against an opponent on the other side of the continent, someone to whom you may never even speak.

Information about computer-related training courses is starting to appear on Viatel. In addition to the degree, diploma and not-for-credit courses offered by universities and colleges, commercial and quasi-commercial organisations like the Victorian Employers' Federation are offering courses aimed at those using (or planning to use) a personal computer for business purposes.

As we have seen Viatel gives the personal computer user access to a diverse range of services. Some simply display material in the traditional manner but now others are starting to exploit the greater power of the personal computer compared with that of a dedicated videotex terminal.

*Stephen Withers is a personal computing consultant. He is also consultant editor of Australian Personal Computer.



Why wait till you get to the office to find out what's happening on Wall Street?

Now you can find out what's happening on the US markets as soon as you get up in the morning.

With Money Watch, you can view exactly how the Dow Jones industrial index moved in half-hourly intervals while you were asleep.

And watch the US commodities and futures markets actually unfolding, with figures continuously updated every 10 minutes.

Which is a lot better than listening to sketchy radio or TV reports.

Money Watch also brings you a summary of the key world indicators. Including the FT 30 and FT-SE 100 indices, Standard & Poors 100 and 500 indices, and the spot gold bid.

So now you can start forming your opinion about the trading day in Australia much sooner.

And ponder your strategy while you're in the shower or stuck in the traffic.

Money Watch comes to you through your existing telephone line. To get it, you'll need an adaptor and a simple keyboard to connect your telephone to your colour TV or home computer.

If you add a printer and the right software, you can even chart the movements overnight and read the trends in the morning.

London too.

Money Watch also brings you the London market with FT-SE 100 stock prices updated five times throughout the night, including major Australian shares traded in London.

As well, we have the London forex, metals, gold, financial futures and commodities prices, updated continuously. And we even bring you the opening and closing reports on the Japanese, Hong Kong and Singapore markets.

Follow the Sydney and Melbourne markets minute by minute.

If the local share market is your living, Money Watch will bring it right into your office or home.

We have the Sydney and Melbourne prices on screen usually within a matter of minutes after they're chalked up on the boards.

We also have the Australian futures market figures, commodities prices, forex prices and money market rates.

A feast of broker opinions and world news.

Every morning, well-known economic commentator, Ralph Wragg, puts his Wall Street and London market reports on Money Watch. With prices and opinions on shares, forex, metals and commodities.

In addition, Money Watch's own journalists collect opinions from leading local stockbrokers and put them on the screen for you while they're still fresh.

We also bring you selected announcements from the stock exchanges.

And financial and political stories from the Australian Financial Review and Business Review Weekly.

Westpac is on our screen, too, with forex rates and comment on the money market.

So there's no shortage of opinion to help you in forming yours.

Impeccable credentials.

Money Watch is a service provided by John Fairfax & Sons Ltd and David Syme & Co Ltd. Publishers of The Sydney Morning Herald, The Age, The Australian Financial Review, BRW, Personal Investment and Triple A.

Money Watch was launched by the Treasurer, Mr Paul Keating.

What else can Money Watch do?

Money Watch can show you annual and halfyearly reports on 700 top companies.

It can let you buy and sell shares seven days a week, 24 hours a day. And a lot more.

Anyone with a telephone can get Money Watch because it comes to you through the national Viatel network.

And anyone can afford it.

If you'd like to know more about Money Watch, please call Julie Gardner on (02) 282 1665 or Tom Green on (03) 698 6339, or use our toll-free number 008 22 2502.

We'll be delighted to arrange for you to see a demonstration.

Or send the coupon for more information.

-	MONEY WATCH =
	A Fairfax/Syme service.

To Money Watch: G.P.O. Box 506, Sydney,
NSW 2001 or 1st Floor, 301 Clarendon Street, South
Melbourne, Vic 3205.
Dlaces and me full information about

Money Watch.

☐ I would like to see a demonstr	ration.

Name	
Name of Company	
Address	
	Phone

TELESHOPPING IN AUSTRALIA by Paul B

by Paul Budde *

living room in Wagga Wagga. On his TV, John, 30, browses through a selection of wines, electronics and publications featured on his screen. He indicates his choice via a hand held key pad and then transmits the information. The screen flashes the message 'order received' and he continues to browse through the Electronic Newspaper and some entertainment applications from the comfort of his chair.

This scene of electronic shopping is not viewed as being futuristic any longer. For some people teleshopping is now a fact of life.

In this field we are only limited by social acceptance and education. The acceptance of teleshopping by consumers will depend on the same acceptance required by any new service or invention. The degree of acceptance depends on the answers to basic questions: Is this a product which cannot be selected via other avenues? Or does the service perform better than any other available?

The interactive part of videotex is what makes electronic shopping feasible from a technical point of view. The process for ordering items is very similar to the use of a mail order catalogue — telephone transaction. In his book 'The Future of Videotex', Efram Sigel describes a hypothetical ordering process:

"Diagrams or even colour photographs of certain products could be stored and transmitted at the touch of a button. After the user has looked at the description of an item, he could then decide to order it. Touching a few more keys would send his credit card or account number to the central computer, which would check his credit and flash an acknowledgement of the order. The supplier could use the computer record to produce an invoice, a confirmation or packing slip, and any other paper work to finish the transaction ..."

Cable Shop, the first teleshopping service available in Australia on Viatel follows that same sequence. The desirability of electronic shopping will be based partly on the type of electronic package with which it is linked. That is why Cable Shop is calling its service

Aside from the financial advantages there are time saving factors that will be a key benefit to many people.

an electronic magazine which also encompasses news, travel, education and information services.

The success of videotex in general and teleshopping in particular will depend on the package mixes. American Express, also active with teleshopping on Viatel, confirmed with its actions in the US the future connection between teleshopping and electronic fund transfer, with the purchase of 50% of Warner Cable, a large cable TV operator in the US. Both in the US and UK, videotex teleshopping services have expanded with the use of interactive cable TV systems. Some products are more suitable to teleshopping than others, especially those which require less detailed graphics and descriptions. Perhaps teleshopping will encourage consumers to spend more on spur of the moment purchases just as credit cards have done. Whilst teleshopping cannot and will not replace the experience of actually trying on clothes or touching beautiful crystal, it might have an impact on retail outlets and perhaps limit their numbers. Economists will need to observe the teleshopping processes in depth in order to see how they will affect

In research I carried out for a large retail company in the Netherlands, we came to the conclusion that the existing stores would still exist, but a part of each store would be brought back to a warehouse function. Teleshopping orders would be distributed to these local shops and an overnight delivery service be used to have the goods delivered within 12 hours after the actual order.

shopping patterns.

Comparison shopping is another feature. Shopping could be much easier to accomplish by calling up the ads for five different merchants instead of driving or walking through each location, with ease of

comparison making it possible to get the lowest price available. This sort of shopping is available on the American service 'Compuserve' where discounts of between 25-40% can be obtained. More and more suppliers in the Cable Shop service are ready to start discounting to give the Viatel user an incentive to shop electronically. They in turn are saving on sales costs.

Aside from the financial advantages there are time saving factors that will be a key benefit to many people. More time means more freedom to do other things. Jerry Barrell writer of the article 'Changes in the Landscape: New Alignments and Aims in the World of Videotex' (US) describes this as follows:

"In social trends, the most obvious is the willingness of the consumer to purchase electronically which will provide greater freedom or save money."

Ithough the expectation for electronic shopping would be the fulfillment of both of these goals, it will most probably be a matter of fact for American families by 1990 (according to Sandra Yoon at a seminar at the University of Southern California).

Our expectations for the Australian market, based on statistics from Cable Shop usage are very encouraging. Between March 1985 and January 1986, the 100 suppliers of products and services received over 2,500 messages (orders, brochure orders and open messages).

If we weight these figures (not all suppliers were presented equally throughout this whole period) it gives the following picture:

87% brochure order

11% open messages 2% orders and bookings

Of all messages, 70% were sent in the first 5 months of Viatel (up to July) whereas 85% of the orders and bookings were received in the last three months. The actual sales resulting from brochure orders are not included here.

Whilst the number of actual orders is only a small percentage of the total, the fact that

85% of these orders took place only in the last two months of that period is encouraging. It is still too early to talk about trends, but the first two months of 1986 are showing a continuation of the November — December order flow. Cable Shop and Dick Smith Electronics are experimenting in this area. With a 70% PC user basis, the DSE products are an excellent test. There is an obvious need for these products among the early Viatel users. The social acceptance of the users towards these products is good, and as 'educated' PC users they are a captive market for teleshopping.

Like all other suppliers in Cable Shop, Dick Smith Electronics is presenting its services as an 'Informercial' package of products, that is a service comprised of electronic data, news specials, as well as teleshopping facilities. However, apart from the quality, the quantity of the information provided also seems important.

There is a trend towards high usage of programs with around 10-25 frames, however for Informercials with more than 50-100 frames the trend decreases dramatically. Whilst there needs to be some more research performed the cause appears to be due to

an overkill situation. Further segmentation could be one of the answers to this situation. Another key issue this electronic process raises is the privacy issue. It allows marketers and advertisers to reach their audiences with a high level of precision and efficiency.

With a public system like Viatel, privacy is reasonably guaranteed.

But this scenario could change if Telecom's Viatel were to become a private company, or if other private companies offered public videotex services in this area.

Other perceived disadvantages or negative aspects of teleshopping can be summarized as

- Intrusion by constant surveillance
 Interception by dishonest employees of the operators
- Misuse of information
- Reduction of human contact.

Despite these aspects teleshopping has been embraced worldwide as convenient, time ef-

ficient and a cost effective means of competitve purchasing. In Australia whilst still in its very early stages, teleshopping has been well accepted by the first users of videotex. However it is still a tiny baby that needs nurturing before it can walk and eventually live a life on its own.

It is expected that by 1990 some 20-30% of residential videotex users will be involved in regular teleshopping. Companies who are now becoming involved in this exciting new area will definitely profit from an early start. As it will take an organisation at least two years before they find their way in videotex, now is the time for aspiring new generation vendors to set the wheels in motion.

* Paul Budde is a Videotex Marketing Consultant. He is the Managing Director of Paul Budde Communication Pty. Ltd. which amongst its various Videotex activities runs Cable Shop, one of the largest teleshopping 'umbrella' services on Viatel.





FOT VOUT MICTO







Communications Packages for IBM, Apple, BBC and Commodore 64.

Expand the horizons of your personal computer.

These packages provide all you need to access Videotex, Microtex 666, Bulletin Boards and other computers.

information services.

IBM PC is a registered trademark of International Business Machines Corp. Apple II is a registered trademark of Commodore Business Machines Inc.

full graphics in full colour. BBC MICRO * A complete

in ROM chip * Full Viatel colour and graphics

communications package for BBC micros * Software supplied

* Communications facilities for bulletin boards and other

By now you've all heard about Viatel - the exciting new way to do everything from your own banking and shopping to software purchases and electronic mail, plus a vast store of information from share prices to airline timetables. And here's how to gain access via your own personal computer.

The Microtex 666 package provides:

* MODEM. Reliable, error-free communication with top quality modem. Videotex access at 1200/75 for Viatel, Farmlink, Prestel etc. Glass teletype access at 300/300 for bulletin boards and other data bases. e.g. Information Express, Telememo, Midas etc. Complete with push button handset (use as second phone).

* VIDEOTEX COMMUNICATIONS SOFTWARE.

In order to decode the Viatel transmissions and display graphics. This software turns your personal computer into a powerful Viatel terminal and permits storage of screens on disc for later reference, hardcopy printing and easy auto log-on of Viatel identity.

* TELESOFTWARE DOWNLOAD. A vast software library only a phone call away. Download programs from Microtex 666 when you need them and store permanently. Telesoftware download facility guaranteed compatible with Microtex 666 and conforms to Telecom's Viatel Telesoftware specifications.

* MICROTEX 666 SUBSCRIPTION. Nothing more to pay . . your package includes a year's subscription, normally priced at \$49.95. Microtex 666 - the Service Provider on Viatel dedicated entirely to personal computer enthusiasts. Choose from hundreds of programs from the Telesoftware library.

* FULL INSTRUCTION BOOKLET. As easy as making a phone call. Comprehensive manual and simple on-screen instructions allow easy Viatel access.

* AUSTRALIAN MANUFACTURED. All components designed and manufactured in Australia for compatibility with Viatel. Available from Information Solutions - sole distributors for Microtex 666 Viatel packages.

HICROTESIS OF THE PARTY OF THE	□ Commodore 64 (disk or tape version) \$399 inc. to \$499 inc. to \$490
	☐ Enclosed is my cheque or money order made payable to Information Solutions for \$ ☐ Please debit my credit card. Account Number Expiry Date /
* COMMODORE 64: * Disc or Tape Software * Modem connects directly to user port * Text and graphics print facilities * User defined command keys * Access to Club 64 – \$100 of Free software. APPLE II * Monochrome or full colour if colour card installed * Requires standard serial interface.	Signature
IBM * At last a low cost Videotex and communications solution * Uses standard IBM colour/graphics adaptor * Requires standard IBM serial port * Simple help menu to select all functions * Software displays full graphics in limited colour or restricted graphics in full colour. Optional character chip allows	Please send this Order Form with your remittance to: Information Solutions, 31 Victoria Street, P.O. Box 174, Fitzroy. Victoria 3065.

Save time. Phone instead.

To order or for more information simply phone (03) 419 0300.

Dealer enquiries welcomed.

- HITTAIN F

TELESOFTWARE ON MATEL

Scott Sanderson * explains the videotex telesoftware communications protocol.

elesoftware is a novel application of Viatel that enables users who have suitably equipped home or personal computers to 'download' programs or shift the programs from Viatel on to their own disks or tapes. The user can thus 'buy' computer software from a vast library over the telephone line.

Telesoftware on videotex is a very recent development. In 1981, the Council of Educational Technology in the United Kingdom (CET) published a file transfer protocol for telesoftware on Prestel. (Prestel is the videotex service operated by British Telecom and is the 'big daddy' of Viatel). Only since 1983, 5 years after the Prestel service launch, has telesoftware been available in quantity on Prestel, whereas Viatel has had telesoftware available since launch day, in February, 1985! Viatel has many advantages as a telesoftware medium. The Viatel computers transmit at 1200 bits per second, four times as fast as most conventional information services which operate at 300 bits per second, and Viatel is available to all telephone subscribers across Australia at a cost which is unmatched by any other computer based service. It is also distance independant.

Viatel Communications

Viatel communication uses a conventional dual speed RS-232-C modem, which receives data at 1200 bits per second and transmits it at 75 bits per second in full duplex mode. Each character code transmitted between the terminal and Viatel computer consists of 10 bits in the sequence shown in Table 1.

Character Codes

\$399 inc. tax

\$499 inc. tax

Viatel uses a 7 bit character coding system providing 128 character codes from 0 to 127 decimal (or 0/0 to 7/15 hex). The complete set of Viatel transmission codes and how each looks on the screen is shown in Figure 1 Codes 32 to 127 (2/0 to 7/15 hex) are virtually identical to the displayable characters of the International Alphabet No. 5 (commonly known as ASCII). The codes 0 to 31 (0/0 TO 1/15 hex) are used mainly for cursor control and are not displayed.

When a Viatel terminal receives an 'ES-CAPE' character code 27 (1/11 hex) it waits for the next character, the pair being known as a display modifier, ie. a command to the terminal to change some attribute of the display. For example, upon receiving 'ESC C' the terminal will display subsequent characters in yellow. The Viatel display attributes and their modifiers are shown in Table 2. The storage of software on Viatel frames provides a convenient way of breaking up the data stream into discrete chunks or blocks. The Viatel commands of '#' for the next frame and and '*00' to repeat a frame, provide a very simple and convenient means of linking blocks of data and requesting retransmission of a data block if errors occur Viatel does have limitations, the most significant is the restricted transmission cod ing. There are some character codes which

Start bit Binary 0 7 data Representing the character Parity bit This will be either: (even)

> i) binary 1 if the 7 bit character code comprises an odd number of binary

> ii) binary 0 of the character code comprises an even number of binary 1's.

Stop bit binary 1

cannot be stored and transmitted in a Viatel frame. Only character codes from 32 to 127 (2/0 to 7/15 hex) can be used to store information and data on Viatel. Computer program data on the other hand requires a full 8-bit file with character codes from 0 to 256 decimal (0/0 to 15/15 hex). Transmission errors are a problem that Viatel

shares with all data transfer systems. Telephone line noise is no more than an inconvenience when it appears in a page of text read by a human being, but it is intolerable in a program transfer or download service. To solve these problems, a file transfer protocol was developed by CET in the UK. It has been substantially adopted by Telecom Australia with some minor improvements and clarification. Telecom Australia has published a document entitled 'Format Recommendations for Viatel Telesoftware, Issue 3 July 1985, describing the protocol.

The protocol provides for:

- the conversion of an 8-bit oriented file to one consisting only of valid, Viatel codes.
- (ii) its segmentation into frame sized blocks.
- (iii) the arrangement of these blocks on
- (iv) the detection and correction of data transmission errors.
- It must be emphasised that it is a data file transmission protocol. It does not specify anything about file contents, or the way a terminal computer may process the file as it is received, or the way the file is stored in mass storage on the terminal computer.

TABLE ONE

Attribute	Display Modifier	Attribute	Display Modifier
Alphanumeric display	ESC A 65 red		ESC S 83' yellow
	ESC B 66 green		ESC T 84' blue
	ESC C 67 yellow		ESC U 85 magenta
	ESC D 68 blue		ESC V 86 cyan
	ESC E 69 magenta		ESC W 87 white
	ESC F 70 cyan		
	ESC G 71 white	Conceal display	ESC X 88
Flashing	ESC H 72	Continuous alphamosaics	ESC Y 89
Steady	ESC I 73	Separated alphamosaics	ESC Z 90
Normal height characters	ESC L 76	Black background	ESC ½ 92
Double height characters	ESC M 77	New background	ESC - 93
Alphamosaic display	ESC Q 81 red	Hold mosaic	ESC 94
	ESC R 82 green	Release mosaic	ESC 95

Table 2. Viatel display attributes and their modifiers

Conversion

In order to allow 8-bit oriented files to be stored and downloaded from Viatel frames, a series of control sequences is used to shift those non-Viatel characters into the displayable range (in a similar way to Viatel display modifiers). The terminal computer must process the control sequences it receives, to regenerate the original characters. This 'unpacking' from the telesoftware code conversion is the only processing a terminal computer downloader should perform on the telesoftware transmission.

The control sequences and the code shift values are shown in Table 3 and diagramatically in Figure 2. The code extension control sequences can add considerably to the size of the files when stored on Viatel; for full 8-bit oriented files the size may more than double.

Segmentation

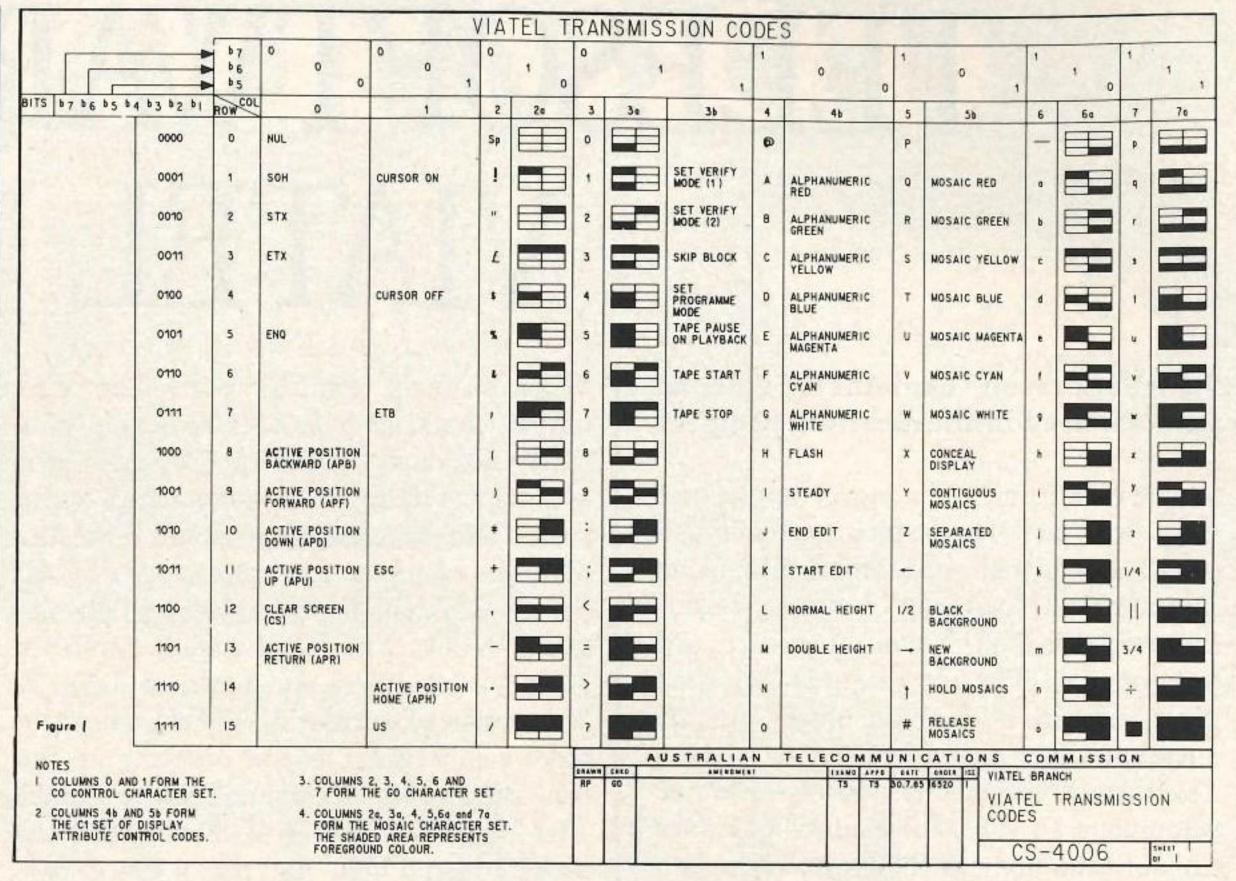
Since each Viatel frame can store a maximum of 877 characters of Service Provider data, the telesoftware files must be broken into a series of blocks equal to the Viatel frame size. A typical program on Microtex 666 for example consists of about 30 Viatel frames with some programs taking over 60 frames of storage. It is interesting to note that information on telesoftware stored on the UK Prestel service states that their files are 'rarely longer than 20 and almost never over 50 frames.'

Arrangement of Blocks

The telesoftware files are stored as a series of consecutive frames (a-z) of a Viatel page. The first or header frame of Microtex 666 telesoftware includes details about the program, its size and operation. A very important series of characters at the bottom of the frame is recognised by the terminal downloader as the start of the telesoftware process. After downloading each frame, the terminal computer sends the '#' character to the Viatel computer to retrieve the next frame. When the 'z' frame is received the downloader must recognise this and transmit the '0' character to retrieve the 'a' frame of the next page. This process can continue indefinitely enabling

Table 3. Code extension control sequences.

CODE EXTENSION CONTROL SEQUENCE		NSION EXTENSION CHARACTEI		CONVERTED FILE CHARACTER RANGE	
0	7/12,3/0	0	2/0 to 7/15	2/0 to 7/15	
1	7/12,3/1	+64	0/0 to 1/15	4/0 to 5/15	
2	7/12,3/2	-64	8/0 to 9/15	4/0 to 5/15	
3	7/12,3/3	-96	10/0 to 11/15	4/0 to 5/15	
4	7/12,3/4	-128	12/0 to 13/15	4/0 to 5/15	
5	7/12,3/5	-160	14/0 to 15/15	4/0 to 5/15	

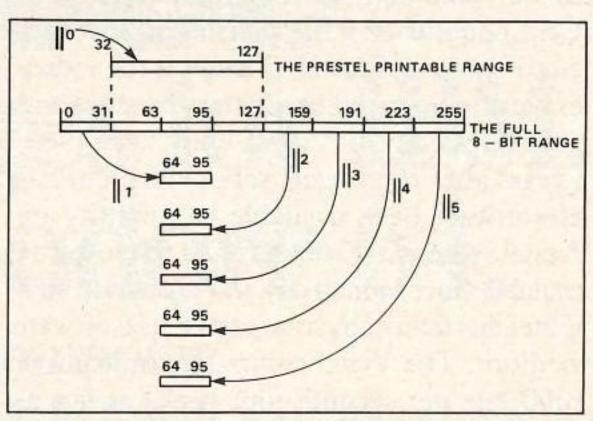


a file of up to 999 frames to be stored on Viatel frames and downloaded to the user's terminal computer at home or in the office. The larger programs on Microtex 666 extend to four Viatel pages, each page consisting of 26 frames. All Viatel users can explore the telesoftware library indexes on Microtex 666 by keying *6663- and examining the program header pages. Most programs are only available to be downloaded by Microtex 666 members but a few are available to all Viatel users. If you key'#' from the header page (eg. *66602081-) you can see what telesoftware looks like on a Viatel

Error Correction and Detection

The segmentation of telesoftware files into a series of Viatel frames provides a convenient basis for error protection in addition to the simple horizontal parity on each character. The block of characters on each frame is preceded by the control sequence 'double bar A' signifying the start of the block, and ends with 'double bar Z'. The 'double bar Z' control sequence is followed by a vertical parity checksum which is the result of bitwise exclusive or calculations on every character in the block. This, combined with the horizontal parity check, ensures a very low probability of data errors passing undetected.

Members should be aware that all telesoftware stored on Microtex 666 uses the last frame charging facility recently introduced by Telecom. Any frame prices on the telesoftware file frames are only charged to the Viatel user after the last frames have been successfully downloaded. This is an important pro-



characters safely within the Viatel displayable range by the use of the locking shift control sequences 1 to 5. The 'shift out' control sequence 0 instructs the terminal

tection to Microtex 666 members as the possibility of having to abort a telesoftware download is ever present with complex programs consisting of a large number of frames.

Microtex 666 Telesoftware

As already explained, the Telesoftware protocol is only a data file transmission protocol. It does not specify the format of the stored

Microtex 666 telesoftware complies fully with the Telecom recommendations contained in the document 'Format Recommendations for Viatel Telesoftware, and this is the only standard for telesoftware which is relevant in Australia.

Within this protocol, Microtex 666 has adopted the convention of storing all telesoftware on Viatel as a binary file representing an image of the original program mass storage format. For example, for IBM software it is the executable object code of a program which is stored and not the text source files. For simpler computers, the tokenised BASIC or machine code is stored and downloaded.

This means programs can be downloaded and executed immediately without the user having to tokenise or compile the text source files. Where it is desirable to provide the same software for a number of different computers, then Microtex 666 provides separate executable versions for each computer. For example, the excellent horse race betting program 'Wizard of Odds' is available separately for the Commodore 64, Apple II and BBC

In the United Kingdom much of the telesoftware is stored on Prestel as text source files. Microtex 666 considered this less convenient for their users as the files still require tokenising or compiling before they can be run. It was considered more suitable for simple Basic programs.

Computer Downloaders

A very high proportion of Viatel subscribers (over 70%) are using home or personal computers to access Viatel. Unfortunately, many

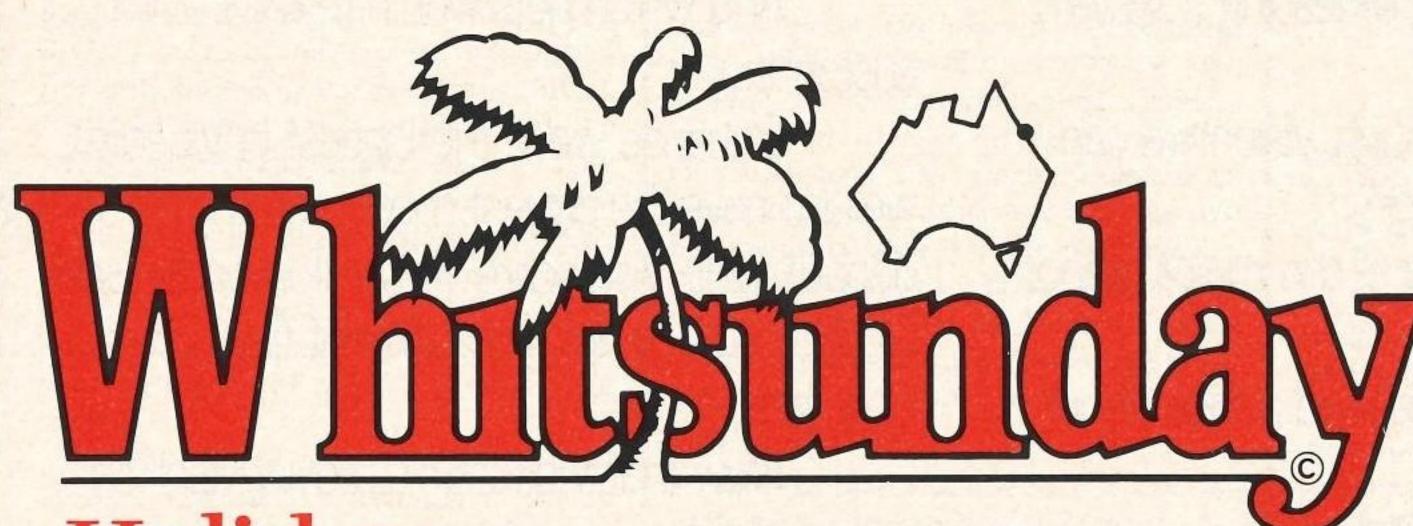
of them may be unable to take advantage of the exciting possibilities of telesoftware, if their Viatel terminal software simply does not include a telesoftware download facility. Some downloaders will only download files less than 26 frames long. A danger with imported videotex packages originally designed to work only with Prestel, and the UK telesoftware databases is that the telesoftware downloader may be suitable for downloading only text source files. This is not true for all imported videotex packages as the better quality products do provide full functionality and work perfectly with Microtex 666 telesoftware. Another problem with some downloaders is that on completion of the download, they automatically enter and run the downloaded program, but still leave the modem connected to Viatel possibly incurring ongoing connect time charges.

Most users of personal computers who are unable to download software will find they

can purchase replacement videotex software capable of performing the download, without the need to modify their computer or modem hardware.

Software on Microtex 666 complies fully with the Australian Telecom specification 'Format Recommendations for Viatel Telesoftware, Issue 3 - July 1985". The 'Microtex 666 Packages' (or Viatel kits) and software, currently available from Information Solutions for the IBM PC and compatibles, Apple II series, BBC Micro and Commodore 64, are guaranteed to work successfully.

* Scott Sanderson has his own company Information Solutions Pty Ltd, which directs the operations of Microtex 666 on behalf of Australian Consolidated Press. Information Solutions has developed and marketed the Microtex 666 range of packages, provides specialist consultancy, services on videotex and communication networks.





★ Hundreds of pages ★ Constantly updated * Rapid responses

Holidays

Whitsunday Mailbox Pages

To Contact Whitsunday Holidays Open Messages 8601851 8601852 Flight Bookings Package Holiday 8601853 Bookings

8601854 Travel Bookings 8601855 Yacht Bookings Accommodation 8601856 Bookings

Whitsunday Index Pages

Main Index Introduction to Whitsunday **Accommodation Directory** Adventures Afloat - Boating Attractions & Activities Travel & Holiday Packages 860185 Response Frames

Whitsunday News Pages 86019 WHATS NEW in Whitsunday 86016 This week in Whitsunday

8601999 Specials - don't miss out!

86021

Whitsunday - Handy Page Selection Island & Mainland Resorts Motels **Bareboat Charters** Day Trips - Island Cruises Water Sports - Diving etc. Entertainment - Night Life Air Travel - How to get here Holiday Packages Bus Services & Rental Cars National Parks Camping Guide

If you have any questions or comments about this VIATEL database, please contact Bill McLeod, Whitsunday Holidays, P.O. Box 425, Airlie Beach, Queensland 4802. Telephone (079) 466 059 or send a message on 8601851.

Why you should buy Videotex equipment from a hire company.

customers.

Now that Videotex is a big success, you may be considering buying or leasing a system, rather than renting.

And here, oddly enough, Visionhire can offer you very real advantages.

For a start, we keep all the major brands in stock, not just one.

So we can offer unbiased advice about them all.

We can show you Philips, Sony and Tandata systems.

We have printers, monitors and keyboards so you can expand and upgrade your system.

And we have modems and software for Apple, IBM, Commodore and Sega.

We'll even tailor a package especially to suit you.

And because we've supplied 75% of all the Videotex gear used by business in Australia, we know which equipment is good and reliable. And which gets warm reviews from our

Because we're the biggest in Videotex, we also have the biggest, most professional service department, 'Visioncare'. A comforting thought when you're deciding to commit thousands of dollars.

Now that Videotex is proving itself so indispensable why not talk to us about an upgraded or enlarged system for your business?

Call us; Sydney 92 0902, Melbourne 699 3144, Brisbane 52 5723, Adelaide 211 7505, Perth 325 9788.

SSB/S/VIS/016

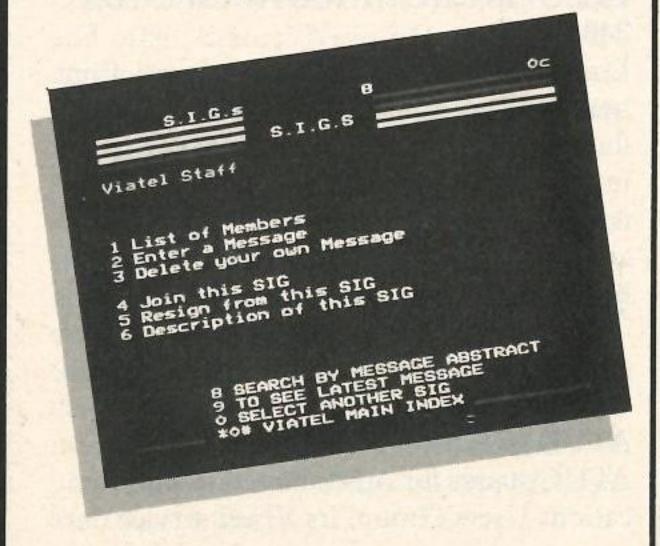
SIGS, A NEW VIATEL SERVICE FOR SPECIAL INTEREST GROUPS— COMING SOON

by Les Cardilini

ooner or later, people who have common interests seem to find each other out and form groups to exchange ideas and trade their experiences. To do so on a wider, national scale is not always an easy matter, particularly in a country as large as

But Brian Smith at Viatel hopes to soon make it easy for users around the country who collectively have special interests, to get together on Viatel. Brian is Viatel's Marketing Manager and he recently demonstrated SIGs, a national videotex service devised primarily for Special Interest Groups (SIGs). A special interest group, or SIG, might be formed on the basis of some leisure or hobby activity, or it could arise within a professional community such as doctors, engineers, teachers or a chain of retail stores, to name just a few. Membership of a SIG could be gained or surrendered by calling up the appropriate frame within a SIG, to register that

The SIGs service would also give general users of Viatel the opportunity to put up information and change frames on Viatel This facility is available only to Service Providers, at present.



In the Public area, a SIGs might be formed by a large retail outlet or other business to pass information about staff, prices, meetings, etc., among its offices around the suburbs, or country for that matter.

Private users on Viatel could use SIGs for club activities, posting items for exchange or of general interest to collectors and other hobbyists. The list of possibilities is limited perhaps only by the imagination.

In the context of either application, messages would be used in a virtually real-time way, although graffiti monitoring and removal of material considered offensive would be possible in the SIGs system.

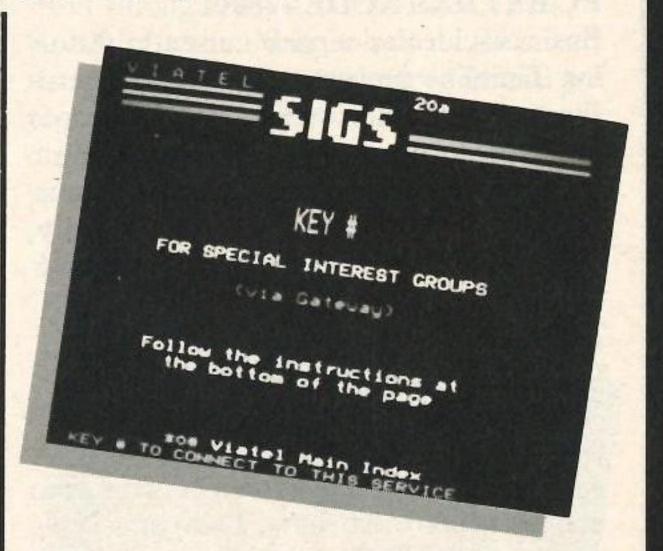
Of course, some SIGs would be quite open and of interest and concern to members and non-members, alike. On the other hand, a SIG formed on the basis of, say medical practice understandably may require some qualifications for membership. Access to certain information within such a SIG might also be restricted.

It was important that the SIG service was not seen as a competitor for currently successful operations on Viatel such as the personal computer and telesoftware clubs, Brian explained. He saw the roles of those kind of groups already established, as important and continuing ones.

Upon entering into the main, SIGs node, a user might browse through a list if SIGs already formed, or select a SIG of particular interest from the list. Options within the SIG frames typically would include a description of the SIG currently accessed, membership lists and how to join that SIG. Further options would include frames — up to 26 frames - for leaving messages, if authorised to do

so, and the choice of deleting one's own

Messages in the SIG would remain there for



some pre-determined period. Brian explained that this period would need to be practical in the context of the activities of the SIG and it was intended only to prevent the SIG's database from becoming clogged with deadwood, or redundant, out of date information. Members placing messages on the SIG list would be offered the choice of including a short abstract of the text, to facilitate faster searching in long lists on a busy SIG. Those messages could be searched in a list of abstracts. Message frames could also be accessed in chronological order, from the last message listed. Browsing forward and backward within the list of messages would be possible, as well. The staff of an organisation with offices around the country could also set up their own SIG.

Details of SIGs no doubt will soon appear on What's New on Viatel. The usual index frames and help routines will be included on the main, SIGs node.

Sascha Giles-Peters (Manager Viatel Database) and Cheryl Daly (formerly of Viatel Branch now working for Information Solutions) created the attributes and visual appearance of the SIGs frames, and Rodney Eisfelder wrote the software for SIGS.

NEW SERVICE PROVIDERS

ABE COMPUTERS NODE 72901

Computer shopping and on-screen order service offering personal computers, a large range of accessories, furniture and Brother equipment. This provider also distributes Roland DG products. Public domain software is offered free to purchasers of PC compatible computers.

PCEXTRAS NODE 778001

Business-videotex service currently featuring Timeline project management spreadsheet software, how it works, what it does and how to obtain a demonstration disc. Many pages of browsing through communications, videotex, and presentation software, a variety of utilities including Norton, Turbo and Borland, and how to contact PC Extras.

OCEANA PROMOTIONS NODE 878

What's on locally and interstate in the way of music and entertainment. Tipping service for races (may the horse be with you) and the week's Tattslotto, Lotto and Pools results are listed, if you have lost your numbers. Dates, venues and booking information for theatre, opera, film, dance and concert are easily located and music VDU invites you to meet the stars.

VIDEOTEX VIEWPOINT NODE 4556

News and reports on what is happening in the world Prestel and Videotex scenes. Current frames inlcude brief preview of Videotex '86 to be held in Dallas, Texas in May. Product list includes literature and videos of the Videotex User Conference held in London in January 1986. Viatel users are invited to leave their own videotex news and views on this node.

CSIRO NODE 232

CSIRO Division of Building Research offers a selection of simple practical solutions to problems facing many home owners and builders; from foundations and borers, to roofs, insulation and noise. Tips on handling storms, flood and fire - before and after - are also provided, and publications, video cassettes and school project material covering a wide range of general interest topics are catalogued over several frames. How to contact CSIRO offices in different States, and ordering facilities, are also available on this node.

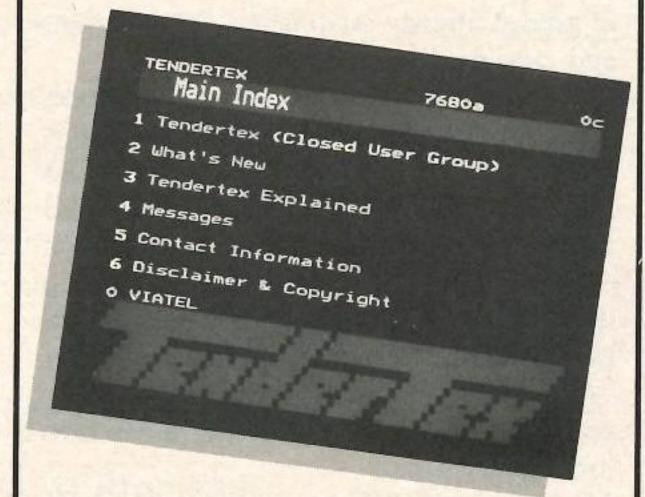


D4 DATA NODE 408

D4 DATA offers to develop computer systems to meet the needs of a variety of industries. Frames presently available provide advice to the gardener for selecting trees, flowers and vegetables for different locations and times of year, including suggestions for the current month. Common names and botanical names may be used to find suitable plants and how to prepare and care for them. Garden Teleshop may be keyed in, to browse or shop for garden and accessories.

TENDERTEX NODE 7680

This service lists details of recent tenders including a description, name of the issuing authority, contact for enquiries, tender number and closing date. Information pages explain the service and provide contact numbers for a variety of media including telex and facsimile. A sample tender is shown. Current tender information may be accessed only by subscribers to Tendertex or by arrangement with the Service Provider.



RAILWAYS OF AUSTRALIA NODE 222950

Extensive information on motor rail and normal passenger rail services between most mainland capital cities, Alice Springs and Cairns. Point to point and en-route schedules show where and when you might expect to be along the way, travelling ROA. Standard and economy fares and booking information are displayed as well as news highlights of new and updated services around the continent

DICK SMITH ELECTRONICS NODE 34572

Catalogue shopping for electronics products from basic kits and solar power to burglar alarms, robots, books and computers. Products may be selected from on-screen listings and specials or ordered by keying in details from the popular DSE catalogue, at home. Brochures and catalogues can be ordered and messages sent via this node and credit card shoppers are catered for.

MENTOR COURSEFINDER NODE

Details of external studies post-graduate and under-graduate courses available at colleges around Australia. Study areas include business and law, agriculture, engineering, maths and computing, education, health, arts and social sciences. TAFE courses for electronics trades and those leading to careers in the TV and radio production and broadcasting industries - from acting to operating a station - are included. User-message response frame available.

COMPUTERPHONE NODE 80041

Telecom service explaining how the Computerphone may be utilised for data communications, electronic mail, problem solving and training - and how it works with Viatel. Computerphone training courses avialable in each capital city are outlined and software plans are discussed. A 008 telephone service for Telecom Computerphone enquiries is listed and a message frame is available if required.

ELECTRONIC NEWSPAPER NODE 34567

Daily-type headlines and news items from home and abroad. Feature news and frames for browsing or selecting items of particular interest, including sport. Financial and economic news and Stock market 'scoreboard' are included in the main index as well as headlines and access to news items in Dutch. Teleshopping service to Cable Shop and statistics on Viatel usage are also accessible via this node.

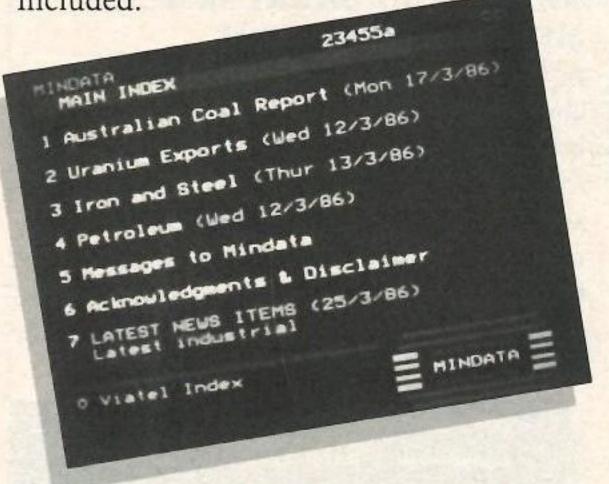
ATUG NODE 300

ATUG stands for Australian Telecommunications Users Group. Its Viatel service out-

tices of meetings and coming events, an industry job market and general contact information and message frame. Information about user groups and their interests within ATUG is provided along with comment on industry issues.

TELE TIPS NODE 457

Some 'pearls of wisdom' about betting on horse races, and feet-on-the-ground advice about making money out of the sport of kings is provided for Viatel customers generally. Inside information is available only to the limited membership of The Firm, a closed user group. Membership details, how Tele Tips works and who to contact are also included.



MINDATA NODE 23455

A comprehensive listing of data relating to minerals and energy production, markets and pricing. Coal, uranium, iron and steel and petroleum head up the different sections. News items about mineral trading and trends are included with reports and statistics in both written and graph form. General frames include information sources and message facilities for contacting Mindata.

CIG AGRICULTURE NODE 77600

Up to date agricultural information especially concerning parasite control in the woolgrowing industry and currently featuring OS-CAR, a recently developed treatment for sheep lice. OSCAR is compared with traditional methods such as dipping and showering, in terms of economies, mortality rates and other factors. News of a new blowfly control method is also announced. Contact numbers and message frames are available for more information from CIG.

OLIVETTI PC NODE 42456

An information service providing details of Olivetti computers and office equipment. Hotline news frames may be accessed for details of new products and Olivetti dealers throughout Australia are listed by State. A dealer only closed user group facility also may be accessed through this node for product information and prices, press releases and registration.

C&L W D SCOTT NODE 38025

This Service Provider specialises in executive recruitment and salary policy and administration. Salary trends are compared in different industries and disciplines and may be viewed against CPI and average weekly earnings trends. Executive positions vacant are listed by State, and initial interest may be registered on the response frames. Check your salary against the 'latest 20' in Salary Monitor, on this node.

GEMINI MAIL ORDER NODE 23555

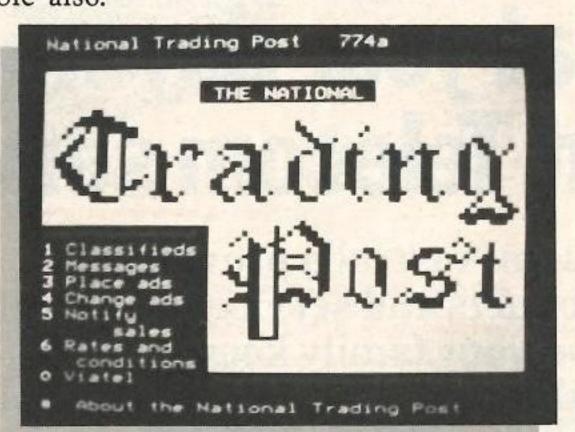
Massage products and accessories, and instructional books and videos are some of the items available through Gemini's mail order service. Anti-stress programs and a large selection of music on cassette are also listed. A contact frame is available.

BSS TEMPTEL NODE 729

A closed user group service for the selection and placement of permanent and temporary staff and employees. Training and computing services offered by the provider are also outlined. Advertising space on the node is provided for subscribers. Terms and conditions of subscription are listed and a registration frame and contact information may be accessed.

SIMPSON LTD. NODE 5570

Lots of information about the Simpson range of whitegoods, and a handy collection of hints for solving problems around the house such as stains on clothes and rugs, messy pipes in the laundry and many more. Other services on this node include recipe of the month, cooking, laundry and freezing hints and information on how to contact Simpson sales and service offices by telephone or Viatel. Brochure request facilities are available also.



NATIONAL TRADING POST NODE

A comprehensive classified advertising service offering goods of nationally wide interest for sale and wanted to buy. Classifications such as books and paintings, antiques, vintage cars, real estate and others may be selected for browsing. Deadlines and rates are listed. Information frames explain policies and how to leave messages and lodge your classi-

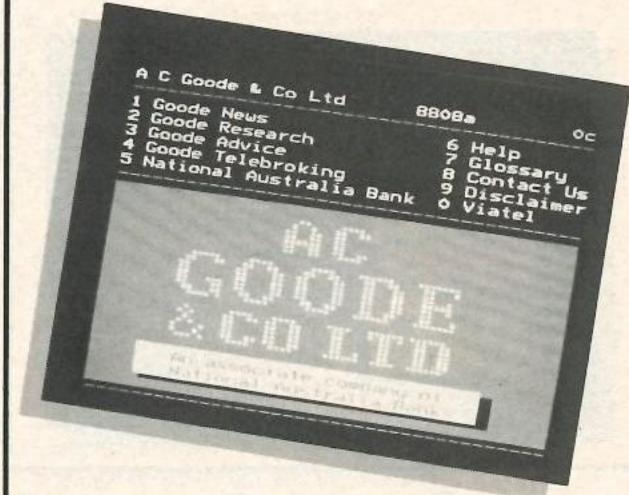
fied advertisement with the National Trading Post.

SANDS BUSINESS SYSTEMS (SBS) NODE 38035

SBS is about Sands Business Systems and the John Sands SEGA Terminal. Frames provide 'walk through' demonstation of the SEGA terminal, what it can do and how it can be tailored to your needs. Special features of the SEGA terminal cater for Prestel (Viatel), ASCII communications and computer applications for education, use in the home and recreation. A more-information page is included if you need more details.

ELECTRONIC CELLAR DOOR NODE 235750

Brush away some cobwebs from the screen, examine the labels and enjoy an electronic stroll through some of the wine cellars of South Australia. Many wines are described in tempting detail. Introductory dozens are suggested, or shopping may be done from the cellar door price lists at per bottle or per dozen bottle prices. Listings show wine prices and interstate freight and insurance charges.



A.C. GOODE & CO. LTD. NODE 8808

A wide base of share and investment information, advice and comment. As well, stocks considered to be of significant interest are singled out for expanded comment. Newcomers to share trading should find the glossary of terms helpful in appreciating more what the larger, general index of investment facts and figures mean. How to use Goode's telebroking service is explained and details of membership of this additional, closed user group facility are outlined.

DISCWARE NODE 778000

Distributor of a variety of computers, peripherals and software. Software for IBM, Apple and Apple Mac includes business, communications and utilities packages, as well as games, flight simulator etc. Messages may be left and order frames accessed for obtaining catalogue or buying products. Prices are listed with most items and deliv-

- CHIVAINE

ery by overnight courier is offered at nominal cost.

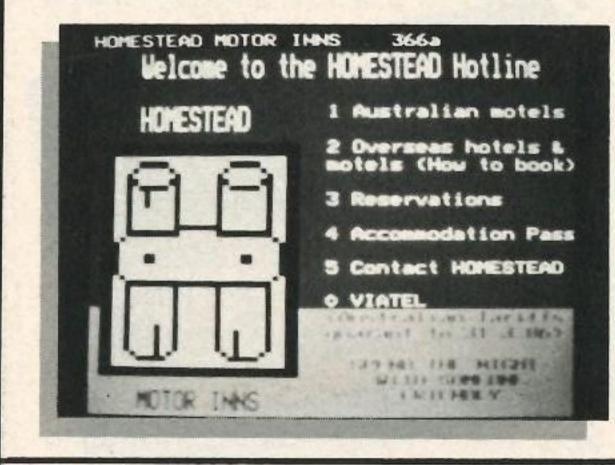
FISHNET NODE 590

Combined, public and closed user group (CUG) seafood marketing system operated by the Trawler Owners' Association of Australia (TOA). Public index currently contains an interesting variety of appetising seafood recipes and general information about retail supplies of seafood, venison and other game. Restaurant information is listed and members of the public may access the index frames of the CUG section, and those giving details of professional fishing vessels for sale. **MIDLAND BANK NODE 88172**

Moves and trends in major world currencies. Foreign exchange spot rates, bank bill rates and a daily technical analysis of the Australian and U.S. dollar rates is provided. The index also includes market commentary, foreign currency options and forward rate agreements.

HOMESTEAD MOTOR INNS NODE

Comprehensive listing of Homestead's Australian motels and affiliated facilities over-



seas. Locations and tariffs are listed for all |

Reservations may be made on Viatel and there is advice on how to obtain the Homestead accommodation pass. Details of facilities in rooms are listed and credit card bookings are catered for.

WESLEY CENTRAL MISSION NODE

A history of the mission and details of their caring and pastoral services. The frames include bible discussion and study and give details of how you might help the Mission. Details of Christian television programs around Australia are included. For more information see article elsewhere in this issue. **TODAY'S COMPUTERS NODE 60013**

Computer news items and product information from the publishers of Today's Computers Magazine. Items listed include the latest top ten in software sales, along with new hardware releases and pricing updates. Today's Computers is a Business Review Weekly Technology publication. Currently running a competition to win a \$9,000 busi ness system.

NASHUA DISCS NODE NODE 42427

This is a Nashua direct buying service for disks, hardware and software products and services. Mini and floppy disks are included. Other services offered include duplication and conversion facilities for over 400 formats; and high speed disk duplication. A brochure and ordering service is available.

TAB W.A. VIABET NODE 606

Information on different types of betting and

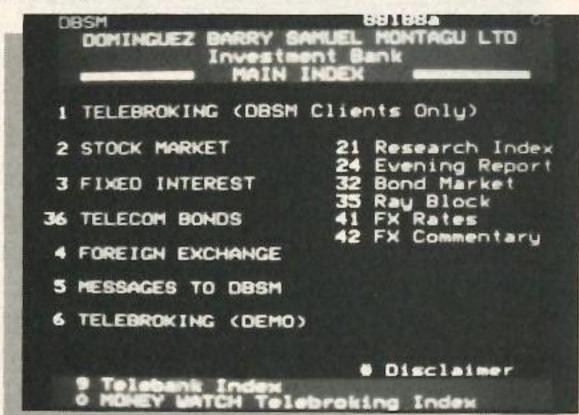
how the TAB in Western Australia operates. Some information is restricted to registered users but there is a great deal of advice about horses and courses for anyone who cares to browse. For more information on the W.A. TAB see the article in this issue.

PA CONSULTING NODE 550

An on screen opportunity to browse through executive positions available in a wide variety of disciplines, and fields of commerce, including marketing, distribution, engineering and many more. Specifications include an abstract of each position, location, and conditions package, etc. P.A. Consulting office addresses and contact numbers around Australia are also listed.

DOMINGUEZ BARRY SAMUEL MONTAGU NODE 88188

A financial and investment advisory service covering telebroking, the stockmarket, interest, bonds and foreign exchange. Company research and recommendations daily market reports and stock analysis and recommendations may be accessed separately. A telebroking demonstration is provided and the frames include a gateway service for price/yield calculations.



Imagine what your day would be like without Telecom services.

Telecom Australia provides the products and services that help you and your family keep in touch, every day.

From a call just 'round the corner or STD calls across Australia, to dialling the world direct on ISD. From a range of handy "Dial-It" services and extension phones for your growing needs, to a great range of modern telephones with all sorts of convenient features - Telecom Australia is The Vital Connection that helps you and your family keep in touch.



The Complete Videotex Solution

There is only one company in Australia that can offer you, this unique range of XYLLYX & SALORA systems!



THE UNIQUE XYLLYX FAMILY OF **VIDEOTEX PRODUCTS**

Local manufacture enables us to specifically customise our products to make your application of Videotex easier and more profitable.

IE5000 PROGRAMMABLE INTELLIGENT DESK-TOP TERMINAL

- Unique security/machine password protection for on
- line and off line functions
- Customised opening screen option
- Slimline QWERTY keyboard and tilt/swivel monitor
- 16 programmable colour coded function keys
- Single key programming auto-log-on to any database including ICL and via AUSTPAC

Can print to standard RS232 Serial Printer

IE6000 INFOEDITOR HIGH PERFORMANCE PRESTEL **WORKSTATION/EDITING CPM80 COMPUTER WITH 14 INCH COLOUR** MONITOR

 Incorporating twin 8 inch disk drives with storage for up to 4000 pages without disk change

- Dedicated colour coded function keys for
- rapid data entry and page creation Unique features including word wrap,
- margin set, dot and block graphic modes, block move, diagonal cursor movement, line and character
 - Customisation of fonts/graphics/logos etc by single key stroke
 - Bulk update protocols

SALORA **VTX2000 BUSINESS TERMINAL** An easy to use superb 30cm/12 inch colour display terminal, ergonomically designed, with anti-glare • 10 programmable telephone numbers and user 22 page memory

IE10000 - A.T.M. NON-CASH AUTOMATIC TELLER **MACHINE WALL MOUNTED PUBLIC ACCESS TERMINAL**

- Operates within Australian EFTPOS standards
- Specifically designed for banking applications to complement cash ATM networks
- Motor driven magnetic card reader
- 16 guage steel construction 14 inch colour monitor
- Dot matrix printer providing up to 4000 prints between
- paper changes Membrane numeric keypad with user-defined function keys

Rank Electronics Viatel No. is *34545#

Rank Electronics Pty. Ltd.

Sydney, 16 Suakin Street. Pymble, N.S.W. 2073 Phone: Paul Speedy (02) 449 5666 Telex 71289

IB2000

Free or coin operation

advertising frames

Vandal proof cabinet

Advertising carousel function

PUBLIC ACCESS TERMINAL

Up to 4000 prints between paper changes

Programmable charge rates for call,

Automatic log-on and downloading of

Restricted response frame capability

Optional extended full QWERTY editing keyboard

Can link to any standard television with UHF tuner

on line and optional printing costs

Total security of ID and password

Alphanumeric or numeric keypads

Melbourne, Regent House 63 Kingsway, South Melbourne, VIC. 3205 Phone: Bruce Hall (03) 61 3541 Telex 34732

Brisbane, Unit 1, 139 Sandgate Road, Albion, QLD. 4010 Phone: John Sullivan (07) 262 8366 Telex 43396

Adelaide, 34 King William Street, Kent Town, SA. 5067 Phone: Bruce Linn (08) 42 9827 Telex 89202

Perth, Unit 1, 106 Oxford Street, Leederville, WA. 6007 Phone: Pat Cahill (09) 328 5122 Telex 93345

For further information on our unique range of XYLLYX and
SALORA systems please complete this coupon and return to
Rank Electronics Education/Video Division,
P.O. Box 42 Pymble 2073

123000
IE10000
12 10000
SALORA VTX 2000
SALUNA VIAZUUU

IB2000	
IE6000	

VIATEL - NOW YOU CAN BET ON IT

Viabet - A Tab Strategic Product by Richard Brisbane-Cohen *

he Totalisator Agency Board of Western Australia has been involved with on-line technologies for over a decade, and has always viewed, with enthusiasm, new technologies which could enhance its business. The Board has kept up research within its own ranks, and has promoted creativity as much as possible amongst its staff. It also has been a keen supporter of the self-service concept of its betting products, and helped pioneer the use of mark-sense reading betting terminals, which have been accepted as a worldwide technology standard within the off-course betting industry.

The self-service medium of videotex is seen by the Board as a strategic technology, and as such, has put in a lot of effort to make it as acceptable to the betting public as possible. Its biggest attraction is it's simple, easyto-use menu driven presentation with the use of colour graphics and relatively inexpensive terminals. This makes VIABET potentially attractive in the home entertainment marketplace.

Research into the available videotex technologies began in earnest in July, 1983. At that time we knew of a few private videotex systems around the world using IBM Series/1 computers, and our investigations showed that we could economically convert some of our units to run a supplied package in-house. Our plans progressed along these lines for a few months, until Telecom announced that the federal government had given permission for them to provide a public videotex network.

We see an advantage in using Viatel, because Telecom's Australia-wide network is best placed to provide a low cost networking solution with the broadest possible market base. Since the Board has always endeavoured to provide similar services throughout the State, regardless of distance, Telecom's nationwide, same-cost approach to subscribers, made them the logical choice as our major videotex supplier. So began serious consultations with the Viatel management team in the middle of 1984.

The analysis of the information needed for this new medium was fairly intense, and a small team of TAB staff formulated the basic system requirements for a pilot test. Approval of the project was given in October, 1984, after testing, and simulated demonstrations.

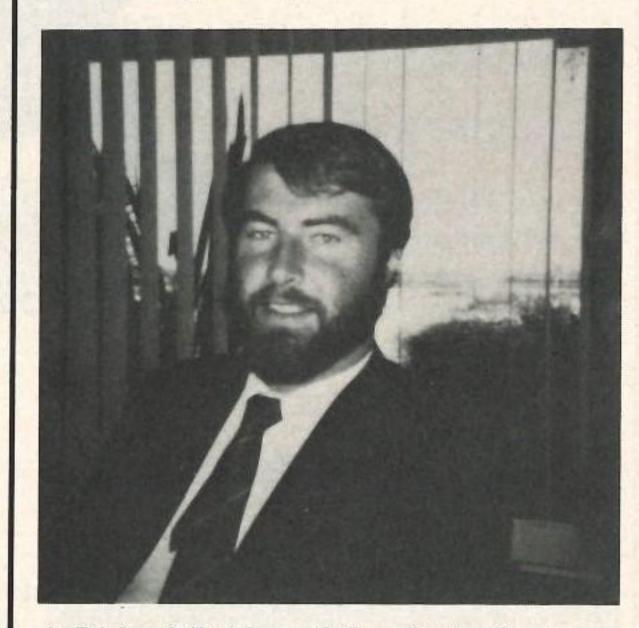
Our information delivery system was divided into three parts, based on their technical requirements. Those were General Information, Racing Information and Betting. Technically they are considered as information that is generally static, dynamic and interactive, respectively. The betting facility had to be the priority task, although we felt that an early presence on Viatel was important. Our early presence on Viatel resulted in a large number of enquiries and this has helped us to plan our administrative procedures We then began gathering the General Information data about our industry, which included the locations of agencies, some policies of The Board and various items of information that changed infrequently. We did not want to create a massive administrative nightmare that required a team of people continually updating information, so this information was carefully vetted.

We collected static racing information such as the physical layout of racetrack and preferred barrier draws

and loaded them onto Viatel in readiness for the Telecom Viatel launch on 28 February

During this initial, data gathering stage, we found that using the generally available editing keyboards for text frames was very tedious, and paricularly time consuming. Telecom provided a bulk-update facility and with it we accelerated our bulk-update programming project, carefully constructing the hierarchical framework for all our pages of information and providing as much future flexibility as possible. Using the bulk update facility, we were able to send the frames from our IBM compatible mainframe directly to

the Viatel computer in time for the Telecom launch. We named our videotex service and the betting facility, VIABET.



Richard Brisbane-Cohen is the Computer Services Manager for the Totalisator Agency Board of Western Australia.

The interface software for Bulk-update at that time was not very sophisticated but it at least allowed us to maintain the loaded data easily. The Bulk-update software was progressively integrated into our raceday system and improved over the next few months while we waited for tha Data Processing Gateway to become available from Telecom. This proved the most efficient method for transmitting and receiving variable, interactive data between our respective computers. It differs from the alternative method of transmitting fully formatted frames through the network, which, because of the additional quantity of data, takes longer to transfer.

e began work seriously on the Data Processing Gateway link in July 1985 using the AUSTPAC service on the Telecom testing system, and faced numerous problems in interfacing the IBM 3705 Communications Controller to the X.25 Telecom network. The interface was finally ready for pilot testing in mid October 1985, and on December 10 a few trial customers began placing bets, using their current betting accounts.

The first generation of betting frames was fairly basic but within a few weeks, our trial customers had outlined a good, general structure of workable pages for their betting. We spent a great deal of time liaising with these users and believe that we now have a set of easy-to-use frames, with sufficient 'help' information, for this interactive application. Efficient software design gives our customers the best response times possible using the

videotex technology.

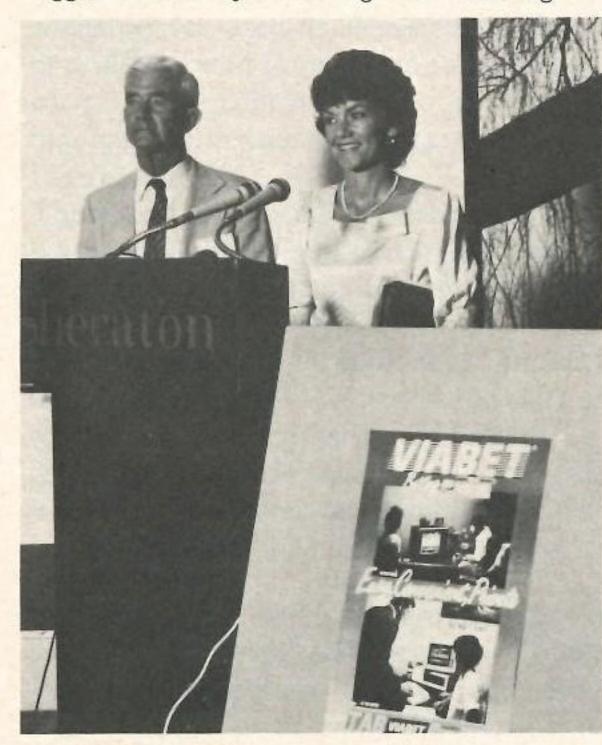
The final phase of the VIABET project was to provide the Dynamic Information using the Bulk-update facility. This information includes Future Events, a variation of the presently available results and dividends, fields (including scratchings, jockeys or drivers, etc.) and non-interactive provisional dividends. All of this information is already available on our computer, and Viatel is an excellent delivery mechanism. Some of this information will be freely available to the public, but the more explicit racing and betting information will be accessible only by members of our Closed User Group, the VIABET account holders. The final phase of the VIABET project is expected to be completed by mid 1986.

Information Available on VIABET

The General Information section describes the various Western Australian bet types, e.g. Win, Place, Quinella, Sweepstakes etc., and the requirements for placing those bets. I also has an alphabetical search for agencies in different towns and suburbs throughout the State. Some particular dividend policies are explained to keep our customers fully informed. A small section provides a brief summary of the The Board's objectives and it is intended that we show a plan detailing future developments for this product.

Under Racing Information, we show forthcoming fixtures and future events and starters names and riders. Track and barrier in-

Harry Jarman, Chairman of WA-TAB; Pam Beggs, Minister for Racing and Gaming.



formation is also displayed in this section.

VIABET account holders can access Tote Information which includes provisional dividends,

and results with final dividends. A full explanation of the betting formats is given under this section to provide a 'help' facility to our betting customers.

The VIABET section has two betting options, one for those with limited VIABET experience, which provides prompts throughout the betting process, and a FAST-BET facility for our more frequent and experienced clients. A display of transactions is available for the customer to check his or her progress in various formats, and finally, customers can automatically generate a request for cheque withdrawals from their account, which will automatically be printed and posted the next working day.

There are a number of prompts throughout the system which allow the customer to send messages and request further information The VIABET product has been designed for high volume usage, and we expect a relatively long growth path for this service, as more and more Australians begin to use the service. We intend to continue to provide enhanced dynamic information for our cus tomers, and future possibilities include electronic funds transfer facilities for our account holders, access to tipping services, form guides and other industry allied services. Enhancements will be addressed from information and suggestions we hope to receive from customers over the next few years.

Technical Comment

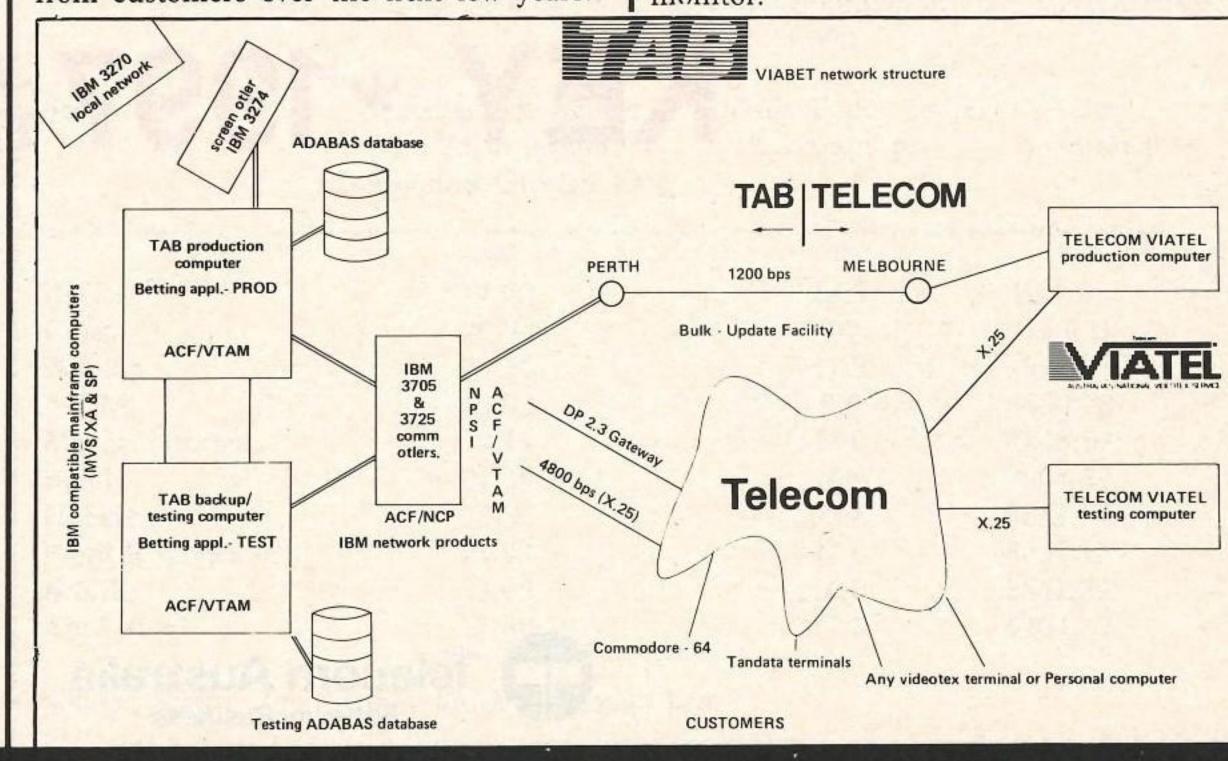
The Bulk-update facility in its present form allows us to retrieve messages sent to us, as well as to construct full graphical frames on our IBM 3270 based Management Information System. These pages are built by programs written in the Natural Language (Fourth Generation), and reside in an ADA-BAS database. These products help us streamline the administration procedures for



L to R: Richard Brisbane-Cohen, Computer Services Manager WA-TAB; Sharon Brown, Telecom Computerphone Demonstrator; Pam Beggs, Minister for Racing and Gaming; Des Carpenter, General Manager WA-TAB; Lyn Thomas, Telecom Accounts Manager.

handling new customers, and the dissemination of information on our products. We believe we are the first Totalisator operation to use this mechanism at present but we are sure that this inexpensive, friendly medium will catch on over the next few years.

The communication from our IBM MVS/XA and MVS/SP operating system uses ACF/VTAM and IBM 3705/3725 communications controllers running ACF/NCP and NPSI, the packet switching interface with an in house exit routine that allows the logging onto multiple applications. We use CICS as the application driver and TP



QUERIES? QUESTIONS? PROBLEMS? SOLUTIONS?

VIATEL

1997a

OC.

WHO, HOW & WHERE GUIDE

- 1 WHO do I complain to?
- 2 HOW do I contact Viatel?
- 3 HOW do I use Viatel properly?
- 4 HOW do I report a fault?
- 5 WHERE can I find what's on Viatel?
- 6 WHERE can I go with a general query?
- 7 WHAT is the Viatel Directory & User Guide?

♦ HOW TO USE VIATEL

KEY *1997#



- HIVAILE

TELEBROKINGON VIATEL DEMYSTIFIES THE STOCKMARKET

cIntosh Hamson Hoare Govett Ltd., one of Australia's leading stock-brokers, provides a service on Viatel that enables clients to follow the stockmarket, provide access to McIntosh's research database, and to place orders to buy and sell shares twenty four hours a day, seven days a week. The service, known as Telebroking, breaks down the remote aura surrounding the stockmarket and enables clients to invest in listed shares from their own homes or offices, basing their investment decisions on the same information that to date would only have been available to an institutional fund manager.

Historically, the Australian public have had little direct participation in the stockmarket. This has been due to a number of factors, including the dominance of the industry by the financial institutions, lack of dissemination of information relating to stockmarket investment, and the widely held but erroneous view that investing in shares was a form of gambling. Investors were said to act on 'hot tips', and to buy stock was to 'take a punt'. This view of the stockmarket might be appropriate if the only shares available for purchase were in an oil exploring company that used its shareholders' funds to drill rank wild cat wells, but is totally incorrect when considering the purchase of blue chip stocks such as shares in Coles-Myer Ltd. or the ANZ Bank.

The following table shows the change in compound growth rate and the annual growth dividends for leading industrial stocks over the period 30 June 1975 to 30 June 1985. The column on the far right shows the current value of \$1000 invested at the start of the period. The results should help to discredit the 'gambling' theory, and reveal that investment in shares can combine the elements of profitability and security.

McIntosh Hamson Hoare Govett Ltd., believe that its Telebroking service will help reverse the historical trend of low private client interest, by bringing the stockmarket by Gavin Randles *

within reach of a greater number and range of people. Wherever one can access Viatel, one will be able to follow the stockmarket.

Telebroking, like Viatel, will be easy to use and will not involve large access expenses.

Telebroking clients will have access to Moneywatch, the Fairfax/Syme videotex service which provides business news, stock market reports, share prices, and overseas market reports. Moneywatch will be supplemented by company reports and economic commentary from McIntosh's research department. This information will include daily, weekly and monthly stockmarket reports, and detailed reviews of major listed companies. These reviews analyse not only a company's past performance, but give the research department's forecast of future performance, and a recommendation of whether to buy, hold or sell the shares. Furthermore,

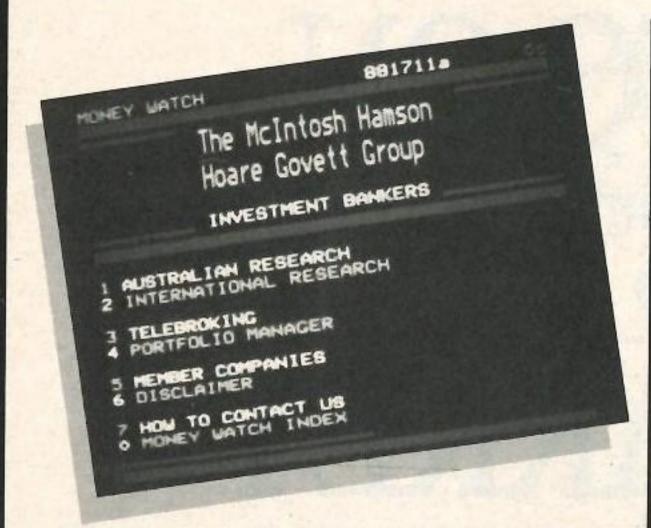
the company reviews will be continuously updated in order to keep abreast of developments in either the company or the industry in which it operates. When an investment decision has been made, Telebroking clients will be able to place an order in the share ordering page which can be sent immediately to McIntosh's offices from almost anywhere in Australia, and acted upon promptly, or the next time the market is

Judging from the experience of McIntosh's equity holder, Hoare Govett, Telebroking will become widely accepted by the investing public. Hoare Govett is the largest stockbroker in the United Kingdom, and has offered a Telebroking facility as part of its private client services since 1984. Hoare Govett Telebroking is on Prestel, the British equivalent of Viatel. Hoare Govett reports the activity to be more than successful, totally justifying the cost of producing and maintaining the service. Further evidence of the potential of Telebroking in Australia is provided by Moneywatch, who recently reported that for the month of February 1986, the McIntosh Telebroking database was accessed almost 7,000 times. In the same month the number of Viatel subscribers was almost 11,000.

Stock	Percentage of Return 30/6/75 to 30/6/85 Compound Growth Rate	Dividend per Share % change p.a.	Value Investment
	%	%	\$
BHP	17.02	18.7	5121.05
Coles	20.84	9.7	7258.21
Dunlop	29.35	11.8	15460.50
A.P.M.	19.92	5.6	6680.78
Mayne Nickless	19.19	13.0	6248.57
Boral	21.35	14.8	7604.57
Hooker	23.53	22.6	9251.37
Pioneer Concrete	21.97	11.0	8037.15
A.N.I.	23.03	16.0	8841.22
ANZ Bank	17.60	17.6	5404.37

Source: Statex, The Sydney Stock Exchange Ltd.

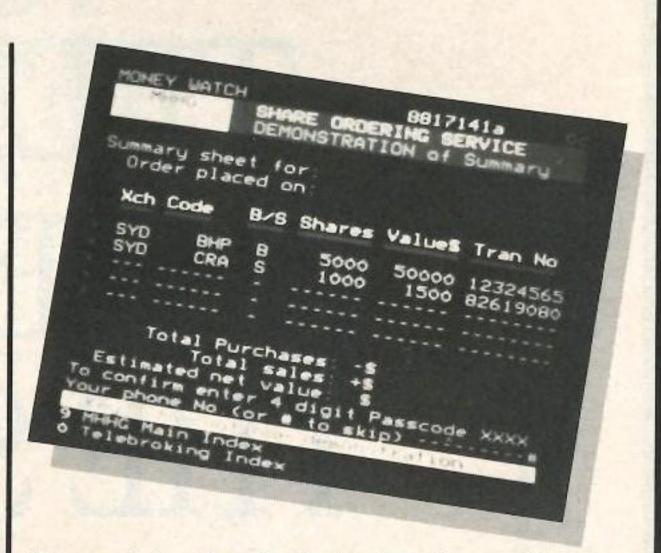
- CHIVALLE



t the same time that Telebroking will be increasing the accessibility of the stockmarket, changes to the taxation system will be making investments in shares much more attractive. Under the proposed dividend imputation scheme, the Federal Government will be giving holders of shares

a taxation advantage. The details of the scheme are yet to be released, but in essence dividend imputation means that for every \$51 received by the way of dividend income, there will arise a taxation credit of \$9. If the scheme is in fact introduced, and it appears to have the support of not only the Federal Government but also the Federal opposition, then the attraction of shares will increase dramatically. Given the abolition of negative gearing and the advent of a capital gains tax, an investment in shares will represent one of the few remaining tax havens for individual taxpayers.

In conclusion, McIntosh Hamson Hoare Govett Ltd., view their Telebroking service as a means to generate public awareness of the advantages of investment in the stockmarket. Currently only 4% of the Australian population hold shares. The availability of Telebroking on Viatel should increase pub- McIntosh Hamson Hoare Govett Ltd.



lic participation by bringing the stockmarket closer to investors and their advisors.

* Gavin Randles, Retail Advisory Services,

VIDEOTEX ACCESS MADE EASY— METROTEL'S MVIEW

Tith Viatel edging its way into Australian homes and business at the rate of over 1,000 new users a month, it is not surprising to find a surge of products on the market facilitating access to videotex systems.

Metrotel have joined the market place with a new product call MVIEW.

MVIEW is a software package suitable for use with any MSDOS computer. (IBM and IBM compatibles). MVIEW distinguishes itself from other videotex software in the marketplace by positioning itself as an easy to use videotex option that assumes no previous experience or knowledge of videotex, or an understanding of computer jargon and

MVIEW's features include double/single height characters, coloured backgrounds, flashing text graphics, on line editing, local editing and page creation and a full off line data base of up to 8,000 frames.

Adam Salzer, Metrotel's Managing Director sees MVIEW assisting large companies, or firms with several operating locations to standardize administrative jobs by enabling people to easily program MVIEW discs, so that branch offices are encouraged to use the company's videotex database. MVIEW's offline data base can facilitate in this usage. MVIEW comes complete with an instructional disc. The package is distributed by Metrotel and is available from most leading computer shops. The package retails for





SYSCORP

75/1200bps reverse

Frequency shift key

operation

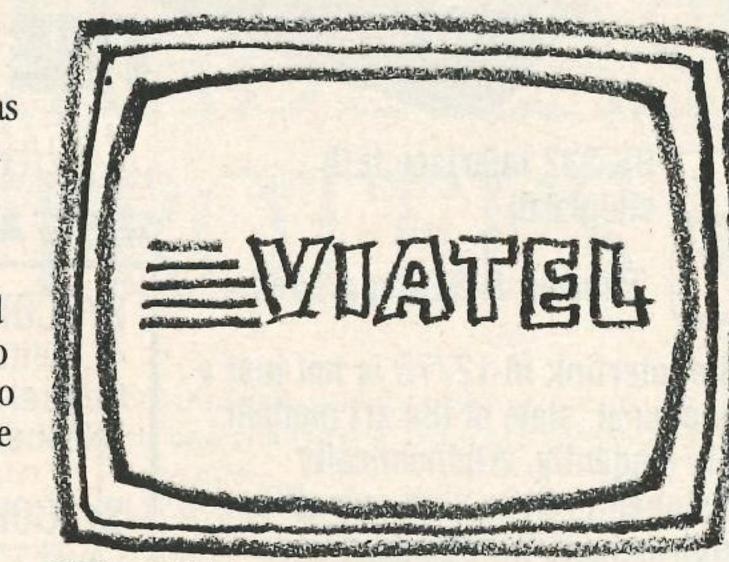
videotex (upload mode)

HISTORIES IN THE PERSON IN

See what it will cost to upgrade your PC to Viatel.

Then buy this Microbee package for \$849 and keep the change.

Many Viatel/Videotex terminals cost much more than this. The new Premium Microbee range has Viatel/Videotex as standard with no extra software needed for software down-loading. You also get a powerful PC with wordprocessor, spreadsheet and database software. For users who need more capacity there are also 64k and 128k systems with single or twin drives and more advanced software.



MICROBEE VIATEL PACKAGE

PC85 Premium 32k machine Monochrome monitor

\$599.00 \$149.50 1200/300 baud

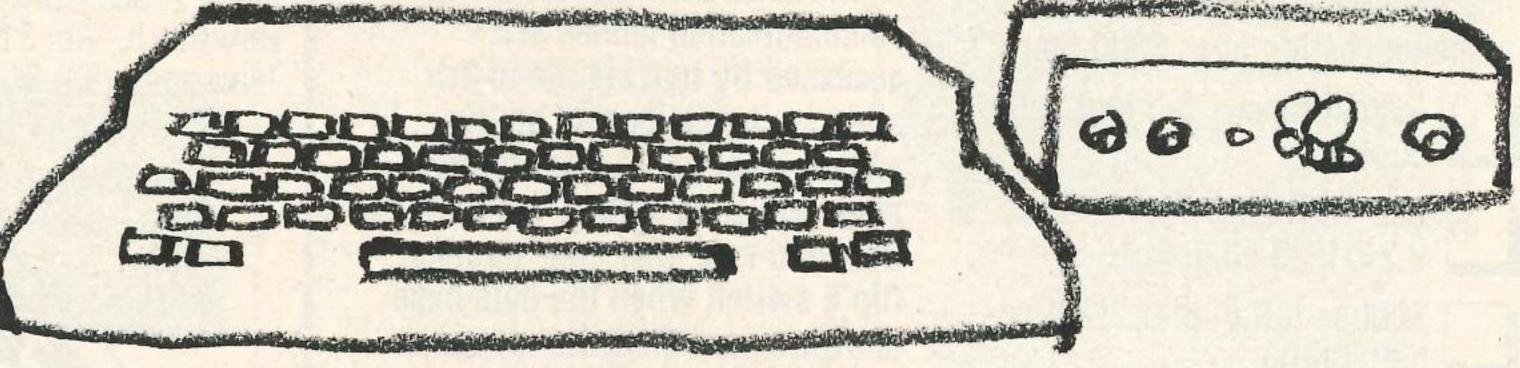
> \$189.50 \$938.00

Package Price

Bee Modem

\$849.00

Ring Microbee now or ask Telecom for a Viatel demonstration (they might even use a Microbee).



(Think of it as your Viatel access with a PC thrown in free)

Sydney (Waitara) (02) 487 2711, Sydney (North Ryde) (02) 888 9866, Newcastle (049) 61 1090, Melbourne (03) 817 1371, Perth (09) 386 8289, Gosford (043) 24 2711, Brisbane (07) 394 3688, Adelaide (08) 212 3299.



WHAT MICROTEX 666 HAS ON OFFER FOR THE PC USER

Stephen Withers *

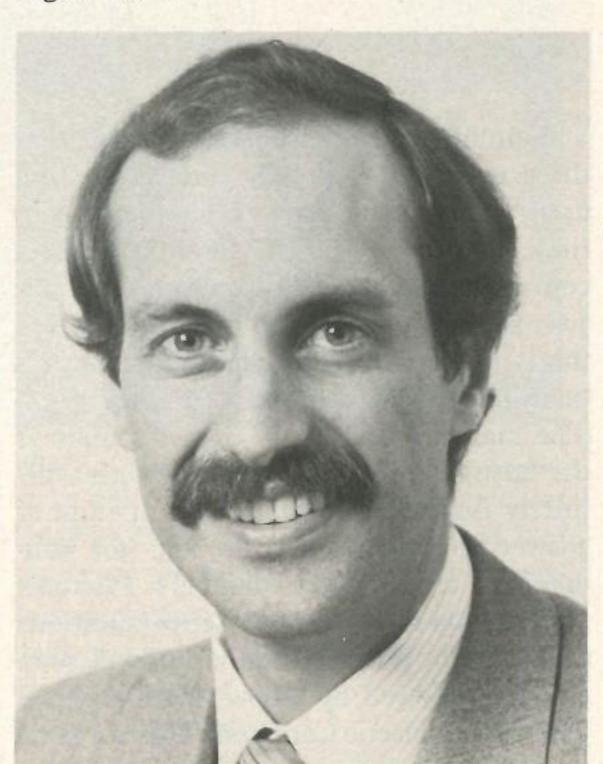
icrotex 666 is one of Viatel's original Service Providers and the only one to cater specifically for users of personal computers. This does not mean that the 666 pages are only of interest to computer freaks - several areas have wider

The section of broadest interest is Trading Post, an electronic equivalent of the classified advertisement columns in your newspaper. Originally intended as a forum for business and home users of microcomputers to buy and sell programs and equipment, it attracted such a wide range of advertisements that computers account for just two of the 15 classifications. The remainder are as diverse as videos and boats, or furniture and cars. Through the Trading Post, Viatel subscribers have been offered \$50,000 blocks of land in Queensland, a list of dozens of two-letter words (for Scrabble enthusiasts), and paintings that appeared in an exhibition that recently toured Australia. No charge is made for viewing these frames, but sellers pay \$2 if the value of the goods does not exceed \$100, or \$4 if they do. 'Wanted' advertisements can be placed for a flat fee of

The majority of Microtex 666's departments are aimed squarely at the computer user. For many, the centre of interest is the telesoftware library. The term 'software' is used to indicate that the functions performed by a computer can be readily changed by loading a different program, while the computer itself (the 'hardware') remains unaltered. The prefix 'tele' - as in telephone or television - simply means distant. The conventional practice is to distribute computer programs on magnetic disks or tapes, but with the appropriate equipment, subscribers can transfer (or 'download') programs from the library into their own computer, saving a copy on disk or tape.

Several of the 300 programs in the library are in the public domain, an expression

meaning the programmer has effectively waived the copyright to the program, thus allowing it to be used and reproduced freely. In such cases the charge made by Microtex is a nominal one to cover the costs of loading the program into the library and keeping it there.



Scott Sanderson, Director of Information Solutions P/L.

A growing proportion of the programs come from the pages of Australian Personal Computer magazine. Here the charge for a significant program is usually around \$2 which is quite reasonable considering the effort involved in typing in a program of several hundred lines from a printed listing.

The final category consists of commercial software, i.e. programs intended for sale. The traditional method of distributing software involves significant expense in the production, storage, and shipping of disks and tapes, with the risk to the trader of being left with unsold stock. Telesoftware costs are far lower, and so subscribers can acquire commercial programs through Microtex 666 at prices

well below retail. At present, the telesoftware library caters for the Commodore 64, BBC, Apple, and IBM computers. Microbee and Sega programs will be added in the near future. The programs themselves include games, educational and business applications, and the utilities that are so appreciated by users as they make up for the deficiencies often found in computer systems. Many computer users prefer to write their own programs, and Microtex 666 has something for them too. The Technical Information area offers a range of hints and tips for programmers (with a frame charge of two to four cents), plus a 'question and answer' department where users can pick each other's brains. The area also includes a list of computerised bulletin boards around the country and overseas. These bulletin boards are generally operated as a hobby by individuals or by computer clubs as a service to their members. Such a bulletin board consists of a microcomputer running a program that allows people to leave messages for each other. Communication is by telephone (in much the same way as subscribers connect to the Viatel computer). Some also have an equivalent of Microtex 666's telesoftware library, although the technical details of the downloading process are very different.

r icrotex 666 includes nine bulletin boards; one is available to all Viatel Lusers, and the other eight are for Microtex 666's subscribers only. The big difference between Microtex 666's Blackboards and bulletin boards provided by other Service Providers currently on Viatel is that there is no human intervention. Subscribers type their messages into response frames which are collected by the Microtex 666 computer. At intervals the computer filters out any obscenities and loads the messages onto normal Viatel frames. This updating occurs every 15 minutes during peak periods (Monday-Friday evenings and throughout

Viatel 'free time') and hourly on Saturday and Sunday evenings.

Microtex 666 subscribers can post messages to the members' Blackboard without charge.

As the non-members' board is open to all a levy of 15-8c- per message is made. The remaining board is called Debate 666, and the intention was to involve Microtex subscribers in a series of debates on a range of topics. In practice, the formal motions have been largely (but not completely) ignored, while participants ride their particular hobby-horses. A recent motion in the computing debate was that 1986 will be the year of Forth (a particularly idiosyncratic programming language), but the majority of the messages discussed the relative merits of certain popular home computers! Viatel subscribers that think about things other than computers will be relieved to hear that the majority of the debates are on completely different topics.

Games and Gametalk provides an information service about computer games as well as a selection of games and puzzles that may be played on Viatel. Subscribers are invited to submit reviews of games they have purchased.



Adventure games are popular with many home computer users. In such games the player must 'act' the part of the main character in a plot that may be taken from detective or spy thrillers, science fiction, or the realm of fantasy. Success in such a game generally results from solving a number of puzzles and locating one or more objects. Such puzzles draw on a wide range of source material. How would you deal with the Cyclops if he blocked your way? In one game the answer is to mention the name of a mythological person who got the better of



The problem with adventure games is that there are often key points (such as a locked door) that must be mastered in order to continue, and sometimes the player simply becomes stuck. Gametalk's question and answer section is dominated with questions of this type, but there are others concerned with many aspects of computer gaming.

The main feature of the Games section is the Australian Inquizition, a quiz with a distinctly Australian flavour. Each attempt at answering a question costs 3-8c- for nonmembers and 1-8c- for members. Microtex 666 intends to pose a new set of questions each month, but the Inquizition will soon be overshadowed by a new flagship game, The Great Galactic Conquest. This is a game of colonisation in a science fiction setting with a \$5000 prize for the victor.

Returning to the serious side of computing, Microtex 666 presents three news services. Point Reports are compiled each working day by the staff of Computing Australia (the controlled-circulation news weekly) and provide up to date news items of interest to the personal computer community.

Australian Personal Computer magazine is the source of Newsprint and Yankee Doodles. Newsprint is a blend of material culled from press releases and gossipy comment, while Yankee Doodles is a monthly look at the US personal computing scene. These articles generally appear in Microtex 666 before the relevant issue of APC goes on sale. Back issues and subscriptions to the magazine can be placed through Microtex 666.

The Microtex 666 subscription fee of \$49.95 gives the personal computer user access to a range of services at little or no additional cost, while non-subscribers can use a limited range of facilities (sometimes on a payby-use basis)

* Stephen Withers is a personal computing consultant. He is also consultant editor of Australia Personal Computer.



TENDERTEX — A BOOST FOR AUSTRALIAN BUSINESS

ustralia's trade balance is ever increasingly in the red and innovations like the Tendertex system which represents the use of modern technology and up to date information will assist Australian businessmen to open up new markets and help turn the trading situation around, so stated Deputy Prime Minister, Lionel Bowen, at the launch of Tendertex in Sydney recently.

The system, Tendertex, is an electronic publishing service designed to give instant access to tenders worldwide. It is the first such service dealing exclusively in tenders and is the brainchild of Sydney based company, International Trade and Tenders Pty. Limited. It is believed to be a unique service and was created following worldwide surveys of systems including British Prestel and French Teletel.

Tendertex was initiated to overcome a major problem of the monthly print publication, 'International Trade and Tenders: Chairman and Managing Director of International Trade and Tenders, Mr Ron Moreland, says 'because of our lead time a high percentage of tenders were out of date or almost out of date by the time we reached our deadline. Now the information is instantly and constantly available.

Emphasising the importance of 'trading well and making a profit' at the launch, Mr Bowen said, 'Australia subscribes substantial sums of money to the World Bank and Asian Development Bank and these organisations then distribute that money across the world to needy countries who in turn call tenders for projects.

'In the past, because of distance and availability of information, Australian companies haven't been able to avail themselves of the opportunity to bid for most of these tenders. But now Tendertex, has changed all that, Mr Bowen said.



Deputy Prime Minister, the Hon. Lionel Bowen, and Mr Ron Moreland, Chairman and Managing Director of International Trade and Tenders, at the Sydney launch of Tendertex. Tendertex subscribers have access to tender details in every conceivable type of activity including tenders put out by the U.S.A. Defence Department.

Tendertex has set up a very thorough tender gathering team to bring in tenders from all over Australia and the world. They communicate via telex and facsimile on a 24 hour basis. They are fed into the Tendertex computer centre and from there directly into Viatel. The input averages some 500 tenders a day with closed tenders deleted daily. Tendertex will soon have a data base of 5,000 to 10,000 tenders worldwide at any given time. Subscribers have access to Tendertex information 24 hours a day, seven days a week and all of the tenders are coded into the Australian Standard Industrial Classifications. Each contract tells the viewer the closing date of the contract, when the contract was inserted, a brief description of what the tender is about and who to contact for further information. As Tendertex is a vehicle

for information and does not handle any tenders itself the subscriber can then make direct communication with the people who put out the contract. So, what does this exciting new business service cost?

First of all there is no charge for any of the information until the subscriber decides the category wanted (e.g. shipping). Once the category is decided, Tendertex shows all contracts available in that category for a charge of 10¢ a page.

To become a subscriber to Tendertex is \$285.00 per year. For that the subscriber gets entry to the closed user group which enables 24 hour access to Tendertex, plus:

- Eleven issues of 'International Trade and and Tenders' with each issue giving an overview on other countries;
- An additional publication which contains approximately 200 pages covering contacts in 50 countries with the potential to handle a further 100 countries. This comes out every four months as an updated trade and contacts supplement to 'International Trade and Tenders;
- Subscribers can also set their own tenders into the system at no further cost.

Tendertex can be found at node 7680.



AMISSION FOR GOD

rnitially, it seems a little strange to see the Wesley Central Mission in amongst the Service Providers on Viatel. But, the Mission is no stranger to electronic media, with its own radio program on 2GB in Sydney and a television program broadcast on Channel 9 on Sunday mornings. Mr Stuart Storrar, the Director of Financial

Development for the Mission was behind

the move on to Viatel.

Mr Storrar believes that the Mission has something to offer for all people not just the aged and homeless.



The Wesley Central Mission in the heart of Sydney, a 'Church-in-a-Theatre'.



The Wesley Central Mission at work - caring for the aged at their Lottie Stewart Hospital.

The data base located on page 38220 comprises forty pages of information on the Mission's caring services for children, the aged, the homeless and disabled persons, as well as information and contact numbers for its Lifeline counselling service. In addition the data base includes a history of the Mission, pastoral services information and studies from the Bible.

The Wesley Central Mission and Viatel n the few months that the Mission has been on-line requests have been received from Viatel customers asking for advice on caring for aged parents, personal problems and spiritual matters.

> Mr Storrar sees the Mission as helping to meet both the spiritual and physical needs of Viatel customers.

For the future, the Mission plans to branch into teleshopping, with its mail order division offering religious education products for sale. It is also planned to link the Mission's 44 caring centres through Viatel by using a gateway linked with the Mission's IBM System 36.

Now you can place an order to buy or sell shares 24 hours a day, from anywhere in Australia, for the cost of a local phone call.

WE CALL IT GOODE TELEBROKING.

Here is what you get -

- Goode News: A comprehensive sharemarket report and recommended short term investment strategy.
- Goode Advice: One-frame summaries and recommendation on many popular stocks.
- Goode Telebroking: place buy/sell orders 24 hours a day. Closed User Group ensures absolute security.
- Goode Research: A nominal charge gives access to extensive and experienced stockmarket Research.

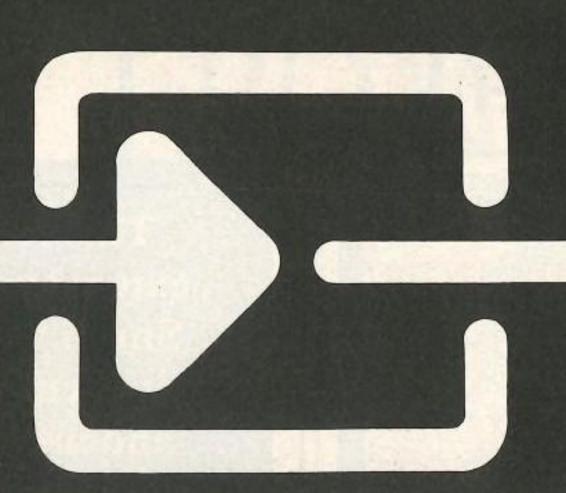
For more information why not send us a message on Viatel, Frame No. *880884# or phone Roy Fallon (03) 607 9600.



Viatel *8808#

TWACG912

VIDEOTEXPERIENCE VIDEOTEXPERIENCE VIDEOTEXPERIENCE VIDEOTEXPERIENCE VIDEOTEXPERIENCE



In Videotex, one name says it all... ...Philips

It took imagination to create them; it took experience to link them to existing systems.

In a country as vast as Australia, efficient communication has always been essential for survival and growth. That's why at Philips we've used our imagination to create a better range of Videotex terminals.

Because it's Philipsyou have the benefit of our vast local and international experience in Videotex.

Communication

Systems

Because it's Philipsyou will have a range of terminals from which you can select the one to suit your particular needs.

Because it's Philipsyou know that all our equipment has quality built in, and comes with Australia wide service back up.

Because it's Philips you know that we will give you continuous personal assistance in making your decisions and will deliver what we promise. ... and, Because it's Philips, you know that in 10 years time we will be here when you need us.

If you would like any product information, please call Doug Meek at Philips Communication Systems Limited on (02) 888 8222

We want you to have the best today and tomorrow

PHILIPS



DICK SMITH ELECTRONICS ON

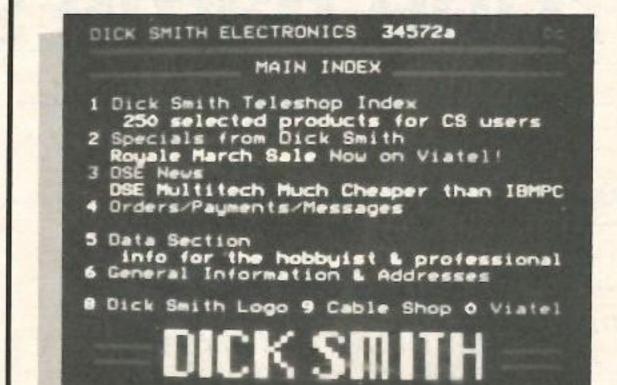
s a company vitally interested in high technology it is not surprising to find Dick Smith Electronics on Viatel. Dick Smith Electronics has almost 200 pages on the system as a sub service provider through Cable Shop. Much of the Dick Smith database contains their extensive catalogue of products - providing an interesting teleshopping service. Along with product information, the data base includes a data information section providing useful information for their entire customer base be they computer buff, electronics enthusiast or hobbyist. The data covers a wide range, from information on resistor colour codes to transmission frequencies throughout Australia.

For the computer user, there are listings of

all products available and an information

service which includes such items as how

to wire a printer to a computer.



This service is an extension of the Dick Smith 'Hotline' and gives customers help and information 24 hours a day, 7 days a week.

n the not to distant future Dick Smith intends to extend its services on Viatel to offer training on all seven of its com puters, list all user groups for its computers and expand the data section to include lessons and information on the latest products.

Dick Smith Electronics can be found at page 34572.

displayed by simply keying the appropriate

number. The (return) key has been redefined

as the (#) key thus reducing the number of

key strokes needed to access a VIATEL page.

Storing of a frame to disk is simply achieved

by pressing a function key. Telesoftware is

simple to download - just select the first

page of the programme, press the telesoft-

ware key and respond to the query about

THE COMMODORE VIATEL ADAPTOR

or Commodore Computer users ✓ VIATEL can be very simply accessed using the new Commodore VIATEL

The adaptor which includes a built-in modem is attached to the cartridge port of the Commodore computer and plugs directly into a standard telephone socket.

With the adaptor attached, the computer wakes up in the VIATEL mode displaying an off-line menu so the user can select, by pressing the appropriate function key, the storage device (tape or disk), go on-line to VIATEL, select a stored frame, or return to the Commodore Basic operating system. Once the connection to VIATEL has been

by Gary Allen established, the selected information can be

The Commodore Viatel Adaptor in use.



file type. After the programme is downloaded you are returned to the Service Provider's software index. The pamphlet describing the use and operation of the adaptor is clear and concise although I would have preferred the use of actual detailed examples when describing the

use of the function keys. The Commodore VIATEL adaptor provides a fast and easy way of accessing VIATEL, using the Commodore C64 and C128 computers.

The recommended retail price of the adaptor is \$299.

PORTABLE VIDEOTEX ACCESS FROM SYSCORP

with the wealth of information now being made available on Viatel, videotex is becoming to Australian business an almost indispensable tool. For many professionals, access to Viatel is of growing importance, and for them, ensuring round the clock reliable access to Viatel is essential to provide them with sufficient information to allow them to do their job. To solve this problem of access, Syscorp Microsystems and Tower Business Equipment have combined hardware and software into a bundle that, as long as there is a telephone available, allows a user to connect to Viatel. The solution centres on Syscorp Multicom, Syscorp Microsystems videotex package and the Toshiba T1100 lap computer. At a very light 4 kilograms, the T1100 is small enough to fit with an acoustic coupler, into an average sized briefcase. In fact the T1100, Multicom, acoustic coupler and briefcase all come bundled together from the distributors, Tower Business Equipment Pty. Ltd. and Syscorp Microsystems.

Centred around low power consumption CMOS technology and a 16 bit 80C88 processor chip, the T1100 has inbuilt rechargeable batteries which give up to 8 hours use between charges. Its LCD screen has a 640 x 200 pixel resolution and can display a full 25 line x 80 columns screen of character data.

The user loads Multicom on to the T1100 by its built-in 3.5 inch floppy disk drive, which has a formulated capacity of 720 kilobytes. Once the disk is inserted the user merely keys 'MULTICOM' and is then presented with Multicom's novel split screen layout. On the right side of Multicom's screen are function key command explanations, while the left side initially displays simple dialling and connection instructions to allow the user to connect easily to the database. Multicom can automatically log-on to connect to Viatel with a stored log-on sequence which can enter the user's identification number and password. With this automatic log-on ability, user involvement at the critical log-on stage is minimised thus saving time and effort. As well the user does not have to memorise long strings of digits, these can be stored and recalled by Multicom.

Multicom turns an IBM-PC (or compatible), T1100, ACT Sirius or Apricot PC/XI into a fully featured videotex terminal or glass teletype emulator. Multicom is widely used by major Viatel service providers; Moneywatch, the Commonwealth Bank's Telebank, the telesoftware service - Microtex 666 and the merchant bank Dominguez Barry Samuel Montagu.

Syscorp Microsystems has bundled Multicom with the T1100 to increase its availability to those who need a truly portable videotex terminal with the added flexibility of being IBM PC compatible. According to Chris Liddell, marketing manager for Syscorp Microsystems,

"our research has shown that a need exists to provide professionals, especially in the financial world, with portable Viatel access.

These people tend to work around the clock and need to connect to Moneywatch for example, whether they are at home, work or in a hotel. 'Liddell said it makes good sense to have Multicom running on a T1100. Multicom has interfaces to popular PC packages such as DBase II/III and Lotus, and since the T1100 can run such software, information from Viatel can be downloaded and manipulated. A typical scenario would be an investor downloading financial information from Moneywatch or Telebank into a Lotus model for further analysis.

As well as allowing access to Viatel, Multi-

com can communciate with other network

services such as OTC's Midas and Minerva

networks, and Telecom's Telememo. Multicom also supports telesoftware download, such as is available through Viatel on the Microtex 666 service.

The T1100 has standard peripheral interfaces, including a parallel printer port for dumping Viatel screens to hardcopy. An extra floppy disk drive can be attached to provide an additional 720 kilobytes of storage. One of Multicom's more powerful features is its command file system allowing automatic execution of stored sequences of commands. This could allow the user to log-on to Viatel, send a message (previously created using Wordstar), access a series of stock prices and store them to disk, disconnect from Viatel and dump the stored prices to hardcopy. All of this automatically.

Multicom's user-to-user mode also allows remote PC to PC communication. With both PCs running Multicom, keyboard to screen connection as well as file transfer between systems with full error detection is possible. Using CET protocols both binary and AS-CII files may be transferred.

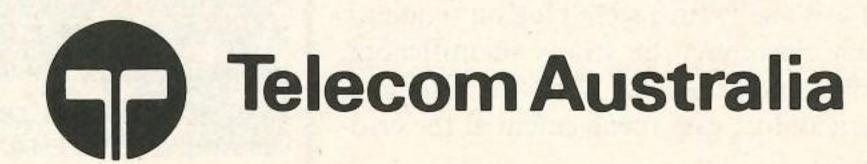
The Multicom/T1100/modem bundle is available from Tower Business Equipment Pty. Ltd. and Syscorp Microsystems Pty. Ltd. for a price of \$3,999.



ComputerPhone is the most complete videotex accessing unit available. Not just a phone and VDU, ComputerPhone also has a short-code dialling directory and a page storing facility.

But more than this, ComputerPhone is also today's complete management tool. Designed for the real world and capable of assisting executives in their daily tasks.

So for the answer to your communication problems see the new Telecom Computer Phone. You'll find all the answers in one.



S U B J	E C
Tasbureau's Tasmania	7000
Tasmania Be Tempted	
PAINTINGS (Classified Ads)	1219219
National Trading Post	77412
PASSPORT ADVICE	
PASSWORD CHANGE FACILITY.	
PERSONAL COMPUTERS	178
CABLESHOP	
Cable Shop PC Club on 34534	45
PERSONAL COMPUTING	17
PERSONAL CONTACTS	12515
Connexions	
PERSONAL FINANCE	11226
PERSONAL LOANS	
Commonwealth Bank	
National Australia Bank State Bank of N.S.W	
	40211126

FACILITY

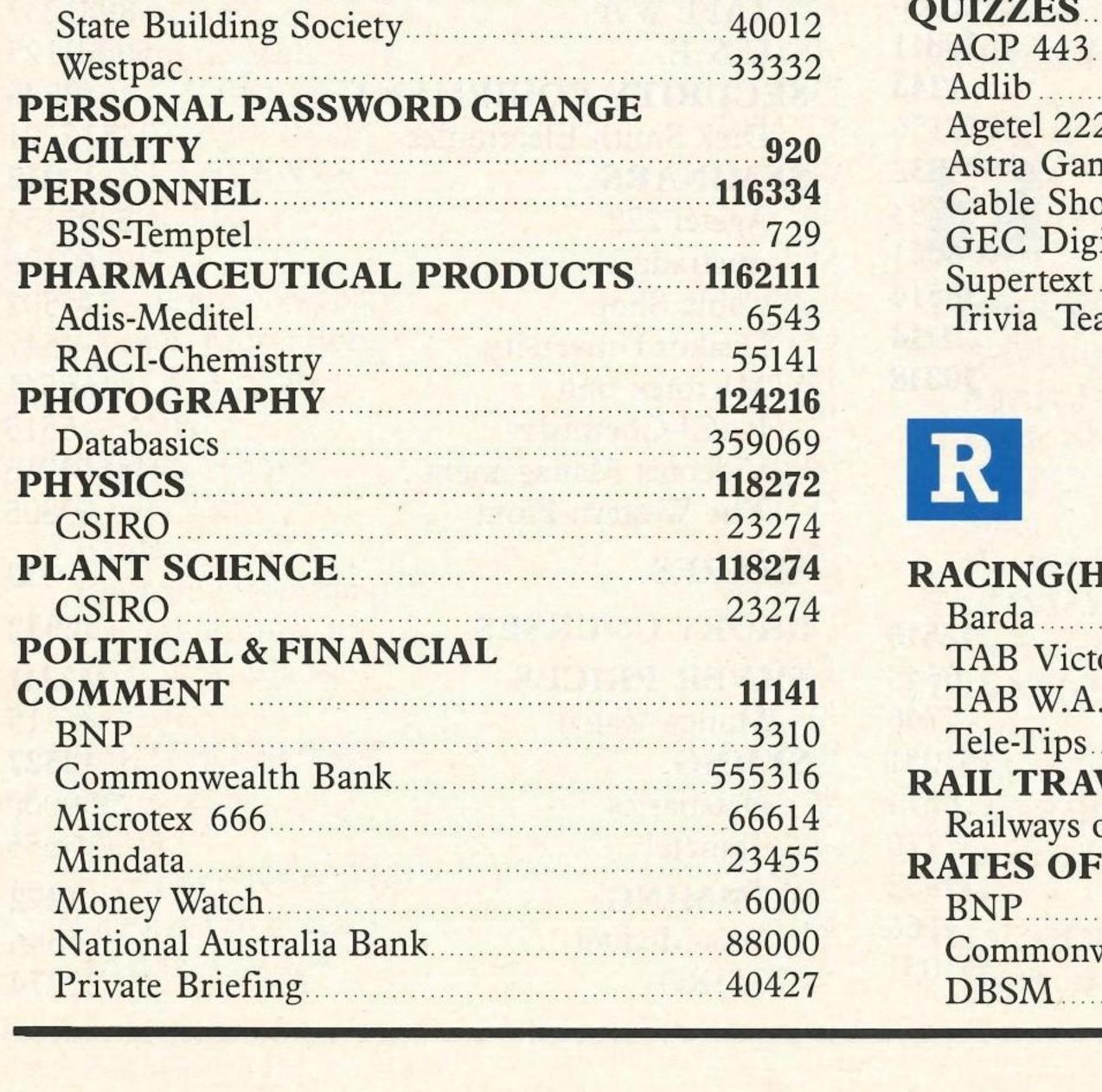
Adis-Meditel....

Databasics

Microtex 666

POLITICAL & FINANCIAL

The state of the s	600
Tranztel	36
Westpac	8817
PRINTING INDUSTRY	1 1
Videotex Management	44501
PROFESSIONS	1 1
PUBLIC HOLIDAYS	
Videotex Productions	23450
PUBLICATIONS	12
PUZZLES	122
Ace Videotex	414
ACP 443	4439881
Adlib	7070
Astra Games	
Cable Shop	
GEC Digital	
The Henley Computer	
The Western Front	
Q	
OUIZZES	122
QUIZZES ACP 443	
QUIZZES ACP 443 Adlib	443
ACP 443	
ACP 443 Adlib Agetel 222 Astra Games	
ACP 443 Adlib Agetel 222 Astra Games Cable Shop	
ACP 443 Adlib Agetel 222 Astra Games Cable Shop GEC Digital	
ACP 443 Adlib Agetel 222 Astra Games Cable Shop GEC Digital Supertext	
ACP 443 Adlib Agetel 222 Astra Games Cable Shop GEC Digital	
ACP 443 Adlib Agetel 222 Astra Games Cable Shop GEC Digital Supertext Trivia Teasers	
ACP 443 Adlib Agetel 222 Astra Games Cable Shop GEC Digital Supertext Trivia Teasers	
Adlib Agetel 222 Astra Games Cable Shop GEC Digital Supertext Trivia Teasers	
ACP 443 Adlib Agetel 222 Astra Games Cable Shop GEC Digital Supertext Trivia Teasers	
ACP 443 Adlib Agetel 222 Astra Games Cable Shop GEC Digital Supertext Trivia Teasers	



Trivia Teasers	
DE LE GRESSES EN LES	A SECTION AND A SECTION ASSESSMENT OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON
R	
ACING(Horse)	1244
Barda	832
TAB Victoria	2600
TAB W.A. Viabet	6061
Tele-Tips	457
AIL TRAVEL	1571
Railways of Australia	22295
ATES OF INTEREST	11233
BNP	
Commonwealth Bank	
DBSM	

- SUBJECT - INDEX -

Mational Assetsalia Doule	99002	DACI Chamiatan
National Australia Bank		RACI-Chemistry
State Bank of Victoria		SydH Occ*Haz
State Building Society		Vic Emp Fed
Tranztel		SAVINGS & INVESTMENT
Westpac		AEtna
REAL ESTATE AGENTS		ANZ Bank
Frederick Owen and Associates		BNP
TechMedia		B.N.P. Pacific
REAL ESTATE & HOUSING		Cable Shop
RECIPES		Commonwealth Bank
Fishnet		National Australia Bank
GEC Digital		State Bank of N.S.W.
Infofront		State Bank of Victoria
Simpson Ltd		State Bank of SA
REGIONAL BUSINESS	1165	State Building Society
Information Access Co.	4904	Tranztel
RELIGIOUS GROUPS		Videotex Productions
Information Access Co		Westpac
Wesley Central Mission		SCHOOL PROJECT MATERIA
RESTAURANTS	1274	SCIENCE & TECHNOLOGY
Agetel 222	2222151	SCIENCE & TECHNOLOGY
Cable Shop	345242	STUDIES
Fishnet	5906	Deakin University
The Henley Computer	2351000	TAFE W.A.
The Western Front		U.N.E.
RESULTS(Sporting)	1243	SECURITY EQUIPMENT
Agetel 222		Dick Smith Electronics
Barda		SEMINARS
Oceana Promotions	8783	Agetel 222
TAB W.A. Viabet		Austrade
Tranztel		Cable Shop
REVIEWS & DIGESTS		Deakin University
RULES FOR ADVERTISERS		Microtex 666
		RACI-Chemistry
		Videotex Management
		The Western Front
		The western From
		SHARES

SAFETY ADVICE.

Adis-Meditel	6545
CIG	
CIG Special Gases	55105
RACI-Chemistry	5514
SydH Occ*Haz	7770
SAFETY AT WORK	11632
CIG	7766
CIG Special Gases	55105

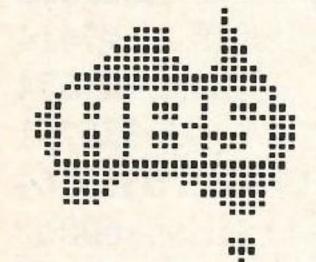
RACI-Chemistry	5514
RACI-Chemistry SydH Occ*Haz	
Vic Emp Fed.	
SAVINGS & INVESTMENT	11222
AEtna	
ANZ Bank	899141
BNP	3310
B.N.P. Pacific	33202
Cable Shop	
Commonwealth Bank	
National Australia Bank	
State Bank of N.S.W.	
State Bank of Victoria	
State Bank of SA	
State Building Society	
Tranztel	
Videotex Productions	
Westpac SCHOOL PROJECT MATERIAL	
SCIENCE & TECHNOLOGY	
SCIENCE & TECHNOLOGY	11021
STUDIES	1293127
Deakin University	
TAFE W.A.	8881233
TAFE W.A. U.N.E.	
U.N.E.	50001125
	50001125 12525
U.N.E. SECURITY EQUIPMENT	50001125 12525 34572221
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222	50001125 12525 34572221 1115 2222154
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade	50001125 12525 34572221 1115 2222154 62105
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop	50001125 34572221 1115 2222154 62105 345502
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University	50001125 12525 34572221 1115 2222154 62105 345502 34547
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666	5000112512525345722211115222215462105345502454766641
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry	5000112512525345722211152222154621053455024547666415515
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management	500011251252534572221115222215462105345502454766641551544501216
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management The Western Front	50001125125253457222111522221546210534550245476664155154450121630805
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management	50001125125253457222111522221546210534550245476664155154450121630805
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management The Western Front	50001125125253457222111522221546210534550245476664155154450121630805
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management The Western Front SHARES SHORT COURSES SILVER PRICES	5000112512525345722211152222154621053455024547666415515445012163080511312932113
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management The Western Front SHARES SHORT COURSES SILVER PRICES Money Watch	
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management The Western Front SHARES SHORT COURSES	
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management The Western Front SHARES SHORT COURSES SILVER PRICES Money Watch SKIING Databasics	500011251252534572221115222215462105345502454766641551544501216308051131293211311481152527359000
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management The Western Front SHARES SHORT COURSES SILVER PRICES Money Watch SKIING	500011251252534572221115222215462105345502454766641551544501216308051131293211311481152527359000
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management The Western Front SHARES SHORT COURSES SILVER PRICES Money Watch SKIING Databasics Tranztel SLIMMING	50001125125253457222111522221546210534550245476664155154450121630805113129321131148115252735900036551272
U.N.E. SECURITY EQUIPMENT Dick Smith Electronics SEMINARS Agetel 222 Austrade Cable Shop Deakin University Microtex 666 RACI-Chemistry Videotex Management The Western Front SHARES SHORT COURSES SILVER PRICES Money Watch SKIING Databasics Tranztel	5000112512525345722211152222154621053455024547666415515445012163080513129321133114811512527359000365512726546

- SUBJECT-INDEX-

COCKAL CECUDITY	40549
SOCIAL SECURITY	
Databasics	
SOFTWARE	
Apple	
Barson Computers	
Cable Shop	
Commodore Computers	
Discware	
Hewlett Packard	34535
I.C.L.	
Infofront	2489
Metrotel	6861
Neologue	38085
P C Extras	
Software Digest	
Tango	
Videotex Management	
Videotex Productions	
SOLICITORS	
Cable Shop	
Frederick Owen and Associates	
The Henley Computer	
SPORTING GAMES	
Astra Games Electronic Mall	
GEC Digital	
The Western Front	
SPORTS EVENTS	
Agetel 222	
Barda	832
Electronic Newspaper Oceana Promotions	9792
TAB W.A. Viabet	
Tranztel	
SPORTS NEWS	
Agetel 222	
Barda	
Electronic Newspaper	
Oceana Promotions	
TAB W.A. Viabet	
Tranztel	
SPORTS RESULTS	
Agetel 222	2222156
Barda	
Electronic Newspaper	345672
Oceana Promotions	8783
TAB W.A. Viabet	6061

	Tranztel	36514
	TAMPS (Classified Ads)	
	National Trading Post	77414
	ATISTICS(Employment)	
	C&LWDScott	380251
	Commonwealth Bank	5553164
	Money Watch	60062
	National Australia Bank	
	State Bank of Victoria	60312216
	Vic Emp Fed	50513
ST	TATISTICS ON VIATEL	11818
ST	OCK MARKET PRICES	11321
	A C Goode & Co Ltd	8808
	Money Watch	6000
	Ralph Wragg	60060
	Tranztel	36532
SI	OCK MARKET REPORTS	11327
	A C Good & Co Ltd	8808
	DBSM	8818824
	Money Watch	600
	Ralph Wragg	60060
	Tranztel	3653
ST	RESS MANAGEMENT	12516
	Gemini Mail Order	
SI	JRFACE TRAVEL	157

APES(Video)	12423
AAV Australia	
Agetel 222	222991
Cable Shop	345704
CSIRO	2322
SonyViewtel	380153
Viewtel	7711
ATTSLOTTO RESULTS	1243
Oceana Promotions	8783
AXATION (Business)	11635
Adlib	7070111
Cable Shop	34591
EACHER TRAINING(Tertiary)	
Deakin University	45422
TTATE	50001100



Australian Bureau of Statistics

* 656 #

Commencing 11.30 am, 15 April 1986

- Economic Statistics
- Population and Social Statistics

PRINCIPLE OF THE PRINCI	THE RESERVE AND ADDRESS.
Supertext	50039
Videotex Management	
TEACHING AIDS & RESOURCES	
TELEBOOKING	
TELEBROKING	
A C Goode & Co Ltd.	
Money Watch	8815
TELECOMMUNICATIONS	
ACI Computer Svcs	310
Agetel 222	222
Apple	4242424
ATUG	38090
Butler Cox	40422
Cable Shop	345701
Computerphone	80041
Hewlett Packard	34535
I.C.L	
Maynetex Metrotel	565
OTT	3000
Tango	42426
Telecom Information	
Videotex Management	
Videotex Productions	23412

TELESHOPPING. **TELESHOPPING ON 345** Free Informercials.

TELESOFT WARE	171
Microbee	2254
Microtex 666.	

MICROTEX 666

MICROTEX 666 OPENS THE DOOR TO HUNDREDS OF DOWNLOADABLE PROGRAMS FOR:

- Commodore 64 66631
- Apple IIBBC 66632 ● IBM 66634 66633 Sega 66635

Join Microtex 666 today.

Phone (03) 419 0666 or go to page *66622#.

Tango	4240241
lastel	76541
TELEX SERVICES	
TENDERS	
Tendertex	
TERMINALS(Videotex)	
Apple	
Barson Computers	3353
Cable Shop	3456
ComputerPhone	80041
GEC Digital	
Sony	380154
Tango	42402
Videotex Productions	23412
Visionhire	
THEATRE	
Agetel 222	
TIME CALCULATORS	
Cable Shop	
TIMETABLES(Air)	1514
Ansett Airlines	7673
Commodore	380451
Qantas	747
Skytex	7410421
TAA	5344
TOURING BY CAR	15791
Air NSW - Tasmania	7009400
Ansett Airlines	767213
East West Air - Tasmania	7009
State Bank of N.S.W.	
Tango	4243700
Tasbureau's Tasmania	7000
Tasmania Be Tempted	
TOURIST INFORMATION	
Adis-Meditel	65456
Agetel 222	222215
Agetel 222	7009400
Ansett Airlines	
East West Air - Tasmania	7009
Foreign Affairs Dept	
Tasbureau's Tasmania	4
Tasmania Be Tempted	
Tranztel	
TOURS	
Air NSW - Tasmania	
Ansett Airlines	
Comm Bank Travel	

làsmania

Your holiday destination

- ☐ Travel and Tourism Information
- Bookings
- ☐ Brochure Requests
- Links to Major Tourism Operators



For more information send us a Mailbox message on \$\psi 2346911 \psi\$ or call us on (003) 32 2750.

The highest standard of accommodation across Australia and New Zealand.

Melbourne	(03) 698 7777
Sydney	(02)267 5555
Adelaide	(08)223 6699
Brisbane	(07)221 0900
Perth	(09) 325 8788
STD free	008-335005

Call us for instant reservations, 24 hours per day, 7 days per week:

Flag Inns Ltd., 132 Bank Street, South Melbourne, Vic.

- SUBJECT-INDEX-

Databasics	
East West Air - Tasmania	7009
State Bank of N.S.W.	4021120
TAA	
Tasbureau's Tasmania	
Tasmania Be Tempted	
TRADE FAIRS	
Austrade	
BNP	
Tranztel	
TRADE INFORMATION	
Austrade	
BNP	
Mindata	
Tendertex	
Tranztel	
TRADE UNIONS	
A.C.T.U.	
TID A INTINIC (ID.	1909191
TRAINING(Business)	1293121
Deakin University	45424
Deakin University TAFE W.A.	8881225
Deakin University TAFE W.A. U.N.E.	8881225 5000124
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex)	45424 8881225 5000124 11816
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop	45424 8881225 5000124 11816 345122
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex)	45424 8881225 5000124 11816 345122
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop Maynetex Tango	45424 8881225 5000124 11816 345122 56523 42401
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop Maynetex Tango Videotex Management	45424 8881225 5000124 11816 345122 56523 42401 445001
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop Maynetex Tango	45424 8881225 5000124 11816 345122 56523 42401 445001
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop Maynetex Tango Videotex Management TRAVEL AGENTS American Express	45424888122550001241816345122565234240144500115794269
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop Maynetex Tango Videotex Management TRAVEL AGENTS	45424888122550001241816345122565234240144500115794269
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop Maynetex Tango Videotex Management TRAVEL AGENTS American Express Comm Bank Travel Infofront	4542488812255000124181634512256523424014500115794269269555224819
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop Maynetex Tango Videotex Management TRAVEL AGENTS American Express Comm Bank Travel Infofront N.R.M.A.	454248881225500012418163451225652342401445001157942692695552248192464
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop Maynetex Tango Videotex Management TRAVEL AGENTS American Express Comm Bank Travel Infofront N.R.M.A. State Bank of N.S.W.	454248881225500012418163451225652342401450011579426926955522481924644021120
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop Maynetex Tango Videotex Management TRAVEL AGENTS American Express Comm Bank Travel Infofront N.R.M.A. State Bank of N.S.W. TAA	45424888122550001241816345122565234240145001157942692695552248192464
Deakin University TAFE W.A. U.N.E. TRAINING(Videotex) Cable Shop Maynetex Tango Videotex Management TRAVEL AGENTS American Express Comm Bank Travel Infofront N.R.M.A. State Bank of N.S.W.	45424 8881225 5000124 1816 345122 56523 42401 45001 15794 269 269 5552 24819 2464



PAGE *741 # FOR UP-TO-DATE AIRLINE INFORMATION -

* FLIGHT SCHEDULES * AIR FARES * STOPOVER HOLIDAYS * AIRLINE INFORMATION & NEWS

TRAVEL IN	NSURANCE	1543
American	Express	269822
	ER'S CHEQUES	
	Express	

UMBRELLA SERVICE PROVIDERS	11817
AAV Australia	2225
Ace Videotex	.414900
Adis-Meditel	65415
Cable Shop	345125



Viatel's largest marketing umbrella - 100 Members Free Informercials available. Join the best. Join Cable Shop. Phone (02) 411 4666.

Databasics	35910
RACI-Chemistry	5513
Tasmania Be Tempted	
Tastel	
Videotex Productions	2345
Videotex Management	445
Videotran	
UNDERGRADUATE COURSES.	12931
UNIVERSITIES & COLLEGES	12921
Deakin University	454
NSWIT Business Faculty	
TAFE WA	
U.N.E.	
Videotex Management	
O =	



VIATEL ASSISTANCE	
& DIFFICULTIES	1054
VIATEL CUSTOMER DIRECTORY	1035
VIATEL CUSTOMER DIRECTORY	
SEARCH	10351
VIATEL DIRECTORY AND	
USER GUIDE	8041

- SUBJECT-INDEX-

VIATEL EXPLAINED	
VIATEL: HOW TO USE	199
VIATEL PASSWORD CHANGE	
FACILITY	920
VIATEL STATISTICS	11818
VIATEL USER'S GUIDE	199
VIATEL: WHAT'S NEW	123
VIATEX	1036
VIDEO EQUIPMENT	12423
AAV Australia	2223
Agetel 222	222991
CSIRO	2322
Sony	380153
Viewtel	7711
VIDEO PRODUCTION FACILITIES.	11636
AAV Australia	2223
VIDEO SUPPLIERS & EQUIPMENT.	12423
AAV Australia	2223
Agetel 222	222991
Cable Shop	345704
CSIRO	2322
Sony	380153
Sony	7711
VIDEODISC TECHNOLOGY	
AAV Australia	222415
VIDEOTEX CONSULTANTS	
AAV Australia	
Ace Videotex	
Adis-Meditel	
Cable Shop	
Maynetex	56521
OTT	30001
Supertext	
Tango	42401
TechMedia	
Tranztel	
Videotex Management	
Tacotox Ivianagement	
Videotex Management Servic	29

Videotex Management Servi Database Design, Computerised Production, Umbrella and Management	
or phone: * 445 # Julie Hunt (02) 44 5560	
Videotex Productions	23400

INFORMATION

VIDEOTEX INDUSTRY

VIDEOTEX NEWS	11811
AVIA	543
Butler Cox	40422
Cable Shop.	34534
OTT	30004
Videotex Productions	234511
Videotex Viewpoint	4556
VIDEOTEX PUBLICATIONS	11811
AVIA	543
Butler Cox	40422
Cable Shop	34534
OTT	
Videotex Productions	
Videotex Viewpoint	4556
VIDEOTEX SUPPLIERS	
& EQUIPMENT Apple	11813
Apple	4242424
Barson Computers	3353
Cable Shop	
ComputerPhone GEC Digital	80041
Hewlett Packard	345351
ICL	
Maynetex	
Metrotel	
Neologue	38085
Sony	
State Building Society	4003
Tango	42402
TechMedia	
Videotex Productions	
Visionhire	4501

PC-EDITOR

Full videotex editing on IBM-PC with bulk update — \$795. See us before you buy Metrotel. Contact Syscorp (02) 908 1599 or (03) 813 3122

VIDEOTEX TERMINALS 11813	
Apple	4242424
Barson Computers	
Cable Shop	
ComputerPhone	
GEC Digital	
Sony	
Tango	
Videotex Productions	

LOOK for this label before you buy your next telephone.

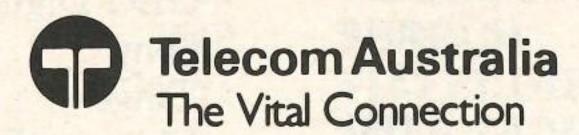
Before buying a telephone ask yourself a few questions. For instance, if anything goes wrong, who'll fix it? And if they can, how long will it take? Does the telephone require modifications for use in Australia? Ask yourself these or any other question, and you'll soon realise that there's more to buying a phone than meets the eye. Who you buy from, and how your telephone will be maintained, is as important as your choice of telephone.



Choose your new telephone from Telecom's range representing the latest in design and technology. This range has advanced features and facilities backed by our expert technological knowledge. That's why every genuine Telecom-supplied telephone comes with a warranty of reliability and quality you'd expect from someone who's been in the business as long as we have.

See the newgeneration telephones that carry this label at your Telecom Business Office.

No one knows more about phones than we do.



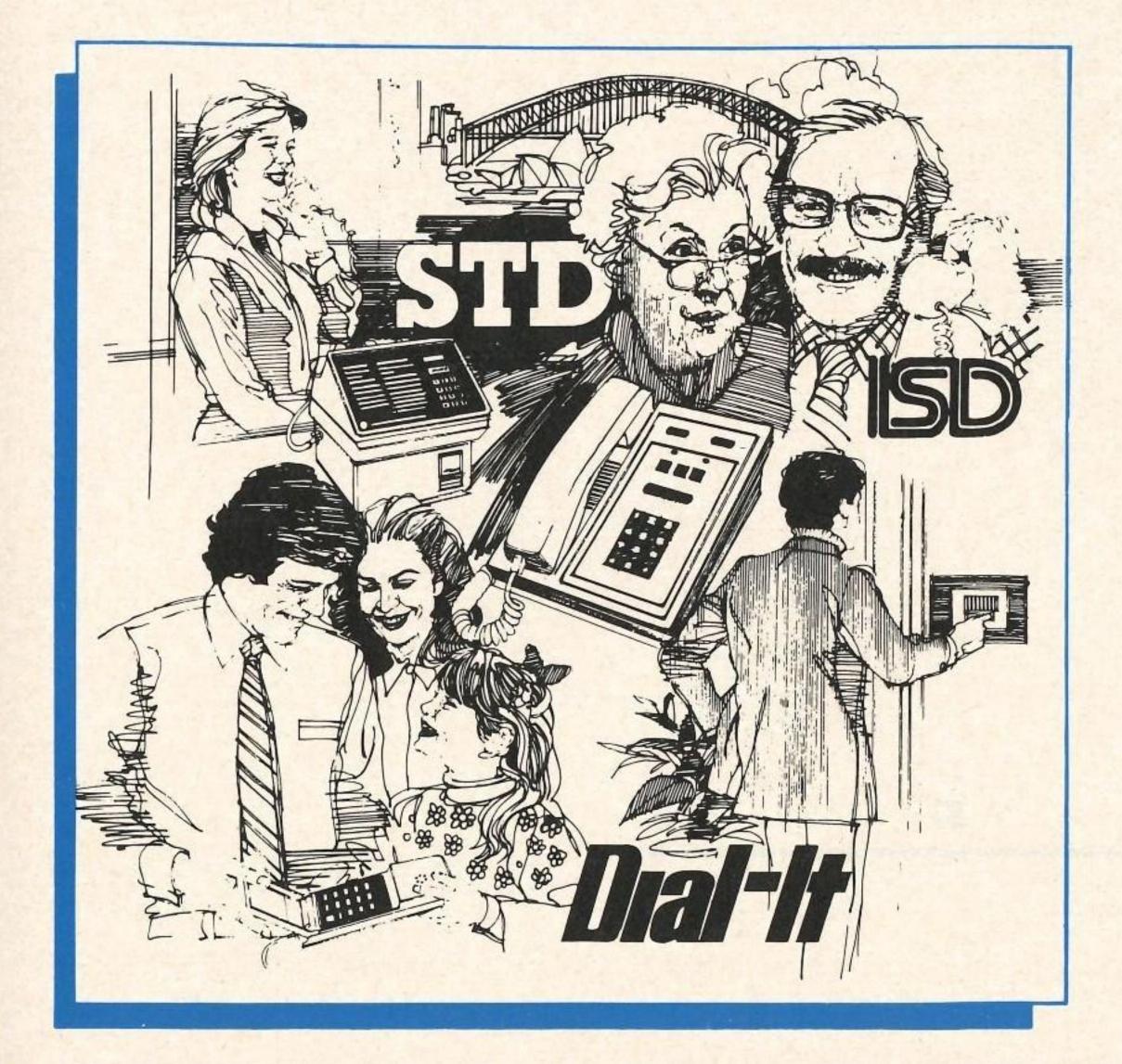
- SUBJECT-INDEX-

Visionhire	4501
VIDEOTEX TRAINING	11816
Cable Shop	
Maynetex	56523
Tango	42401
Videotex Management	445001
VINEYARDS	
The Henley Computer	
Videotran	
VOCATIONAL GUIDANCE	12522



WATER PURIFIERS	197
Pozzani Water Purifiers	
WEATHER	121
Agtex State Bank Vic	381
Tranztel	
WHAT'S NEW ON VIATEL	12

WHAT'S ON:Entertainment	1221
Agetel 222	222215
WINES & SPIRITS	1273
American Express	26928
The Henley Computer	235750
Infofront	
Videotran	250
WINE MERCHANTS	1273
American Express	26928
Cable Shop	3453813
The Henley Computer	
Videotran	
WOOL & LIVESTOCK	11411
Agtex State Bank Vic	3811
Barda	832
CIG	77600
CSIRO	23271
Tranztel	3657
WORLD TIME CALCULATOR	12528
Cable Shop	34500



Imagine what your day would be like without Telecom services.

Telecom Australia provides the products and services that help you and your family keep in touch, every day.

From a call just 'round the corner or STD calls across Australia, to dialling the world direct on ISD. From a range of handy "Dial-It" services and extension phones for your growing needs, to a great range of modern telephones with all sorts of convenient features - Telecom Australia is The Vital Connection that helps you and your family keep in touch.



nor 190
ne 3000
ne 3000
ne 3000
de keep

Norte to:
The Viatel Directory
Write to:
The Viatel Directory
Norte to:
Ne Neibourne 3000
and Magazine.
Neibourne 3000
ne 300

SUBJECT SUBJECT

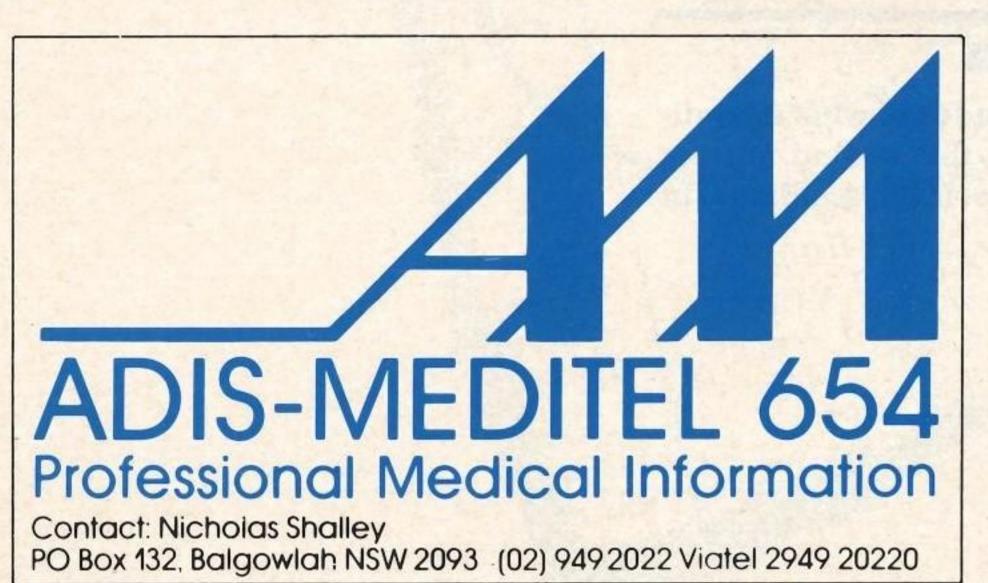
ISSUE 4 - 1986

This is the subject index of what is available on Viatel. Use this to find out the various service providers available in each subject.

SERVICE PROVIDER



AAV AUSTRALIA	2223
ABE COMPUTERS	72901
ACCESS NTH QUEENSLAND	6460
ACE VIDEOTEX	
A CGOODE & CO LTD	8808
ACI COMPUTER SVCS	310
ACP 443	443
A.C.T.U.	
ADIS-MEDITEL	654



ADLIB	707
AETNA	
AG SUPPLIES	567
AGETEL 222	
AGTEX STATE BANK VIC	381
AIR NSW - TASMANIA	7009400
AMERICAN EXPRESS	
ANSETT AIRLINES	767
ANZ BANK	899
APPLE	4242424
ARTHUR YOUNG	602
ASTRA GAMES	455
ATUG	300
AUSTRADE	621
AVIA	543

BARDA	832
BARSON COMPUTERS	
BLACKBOARD	666779
BNP	

B.N.P. PACIFIC	3320
BSS-TEMPTEL.	729
BUTLER COX	40422



C & L WD SCOTT	38025
CABLE SHOP	345

communication

Australia's leading videotex marketing organisation *345# Phone (02) 411 4666

CIG	776000
CIG SPECIAL GASES	55105
COMCORP	35090
COMM BANK TRAVEL	5552
COMMODORE	38045
COMMODORE COMPUTERS	42432
COMMONWEALTH BANK	555

* 555 #

COMMONWEALTH BANK



- Funds Transfer
- Bill Payment
- Account Balance and Statement Display
- Statement and Cheque Book Order
- Investment Information
- Money Market Rates and Commentary
- Foreign Exchange Rates
- Rural Information
- Travel Services
- Business and Personal Lending
- Telebroking

For information call the Telebank Hotline: Sydney — 232 6088 All other areas — (008) 22 1199 (Toll Free)

SERVICE PROVIDER

COMPUTERPHONE	80041
COMSTRAD	369
CONFED OF W.A. INDUSTRY	38030
CONNEXIONS	38005
CSIRO	232
CURRENCY BROKERS-AUST	38280
D	
D4 DATA	408
DATABASICS	
DBSM	
DEAKIN UNIVERSITY	
DICK SMITH ELECTRONICS	
DISCWARE	
EAST WEST AIR - TASMANIA	7000
ELECTRONIC CELLAR DOOR	
ELECTRONIC MALL	
ELECTRONIC NEWSPAPER	and the state of t
E.T.C.	507
FISHNET	590
FLAG INNS	698
FOREIGN AFFAIRS DEPT	
FREDERICK OWEN	
AND ASSOCIATES	222911
G	
GEC DIGITAL	735
GEMINI MAIL ORDER	
THE HENLEY COMPUTER	235

IEWLETT PACKARD	34535
IOMESTEAD MOTOR INNS	



I.C.L.	350
INFOFRONT	248
INFORMATION ACCESS CO.	490



MAYNETEX	565
MENTOR	
METROTEL	
MICRO EDUCATIONAL	49001
MICROBEE SYSTEMS	
MICROTEX 666	
MINDATA	23455
MONEY WATCH	600

FLAG FLAG *698#

The highest standard of accommodation across Australia and New Zealand.

Melbourne	(03) 698 7777	
Sydney	(02) 267 5555	
Adelaide	(08) 223 6699	
Brisbane	(07)221 0900	
Perth	(09) 325 8788	
STD free	008-335005	

Call us for instant reservations, 24 hours per day, 7 days per week:

Flag Inns Ltd., 132 Bank Street, South Melbourne, Vic.

- SERVICE-PROVIDER-

N	TRUMOS
NASHUA DISCS	42427
NATIONAL AUSTRALIA BANK	880
NATIONAL TRADING POST	774
NEOLOGUE	38085
N.R.M.A.	246
NSWIT BUSINESS FACULTY	38040

OCEANA PROMOTIONS	8780
OLIVETTI	42456
ORPHEUS ISLAND	424377
OTT	3000

NT COMPUTER ED CENTRE353

PA CONSULTING SERVICES	5501
PCEXTRAS	778001
POZZANI WATER PURIFIERS	2500
PRIVATE BRIEFING.	40427

QANTAS	 	 	.747



RACI-CHEMISTRY	551
R.A.I.A. ARCHIDATA	731
RAILWAYS OF AUSTRALIA	22295
RALPH WRAGG	60060

SATISFAC	789010

S.B.S.		38035
	LTD	
SKYTEX		



PAGE *741 # FOR UP-TO-DATE AIRLINE INFORMATION -

* FLIGHT SCHEDULES * STOPOVER HOLIDAYS * AIRLINE INFORMATION & NEWS

SOFTWARE DIGEST	40423
SONY	
STATE BANK OF N.S.W.	
STATE BANK OF SA	
STATE BANK OF VICTORIA	
STATE BUILDING SOCIETY	400
SUPERTEXT	500
SYDH OCC*HAZ	

SYDH OCC*HAZ

information on * work hazards * safety programmes * health and safety committees and * recognition and treatment of work-related health problems

For fast, up-to-date

*777#



Sydney Hospital Occupational Health and Safety Service Tel 230 0111

TAA	
TAB VICTORIA	

- SERVICE-PROVIDER-

TAB W.A. VIABET	606
TAFE WA	
TANGO	
TASBUREAU'S TASMANIA	
TASMANIA BE TEMPTED	
TASTEL	
TECHMEDIA	
TELECOM PRODUCTS	
TELECOM INFORMATION	
DATA SERVICES	
ITERRA SATELLITE SERV	
008 SERVICE	8003
TELE-TIPS	
TENDERTEX	
TRANZTEL	
TRIVIA TEASERS	81703
TRUMPCARD INTERNATIONAL	



U.N.E.	50001



VIATEL DIRECTORY	8041
VIC EMP FED	
VIDEOTEX MANAGEMENT	445
VIDEOTEX PRODUCTIONS	
VIDEOTEX VIEWPOINT	4556
VIDEOTRAN	250
VIEWTEL	

*****771 # VIEWTEL COMMUNICATIONS

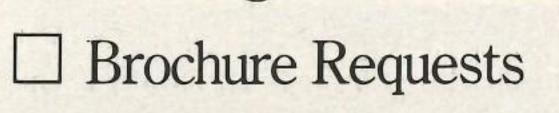
Full range of Umbrella Services at attractive and flexible rates. Bulk Update software with custom made options to suit your needs.

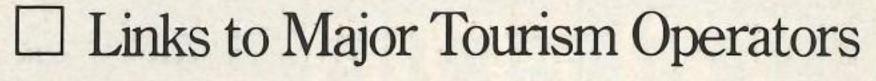
VISIONHIRE	450
VTX	404



WESTEW	OFNIEDAT	1,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
MESLEY	CENTRAL	MISSION

làsmania Your holiday destination ☐ Travel and Tourism Information ☐ Bookings





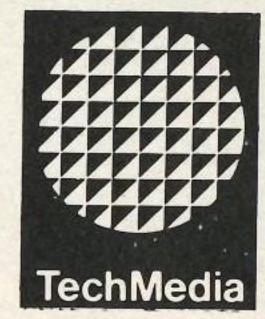


For more information send us a Mailbox message on \$\psi 2346911 \psi\$ or call us on (003) 32 2750.

Page 789 Viatel 821241220

.38220

WHAT CAN TechMedia DO FOR YOU?



TechMedia can:

- establish your organisation as a service or sub-service provider
- provide a complete videotex consulting service
- undertake equipment needs analysis
- provide creative design for information
- provide staff training in videotex procedures
- research and develop gateway connections to your organisation's computer systems
- provide a gateway bureau system.

"The Art of Communication"

Registered Office 151 South Tce. Adelaide, South Australia, 5000 Postal Address PO Box 371, Uniey, South Australia, 5061 Telephone (08) 212 2168 Telex AA89463 Telegrams Satisfac Unley

- SERVICE-PROVIDER-

THE WESTERN FRONT 308
WESTPAC 333

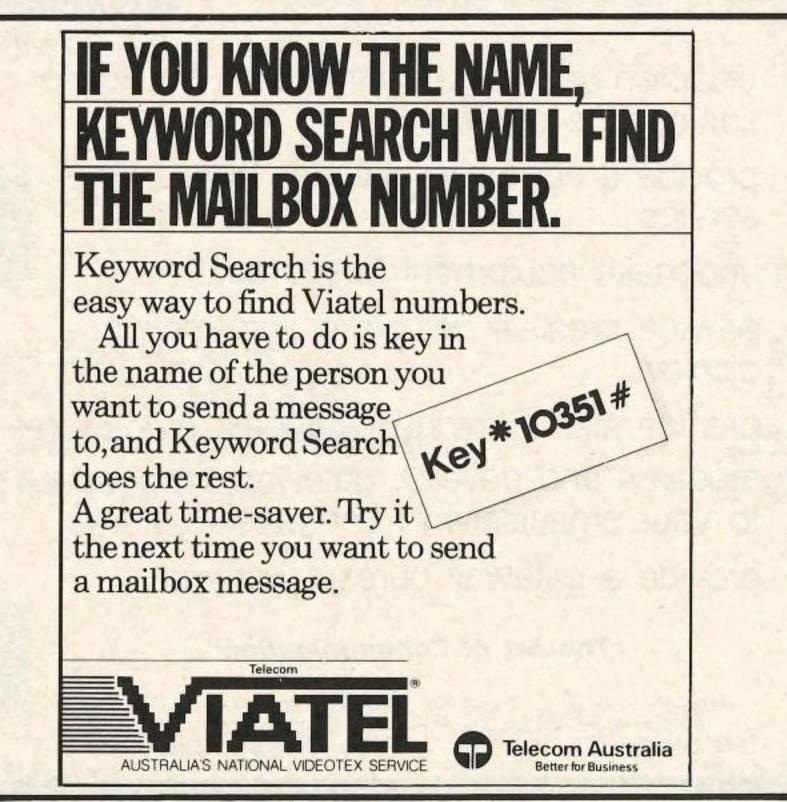


YELLOW PAGES.....

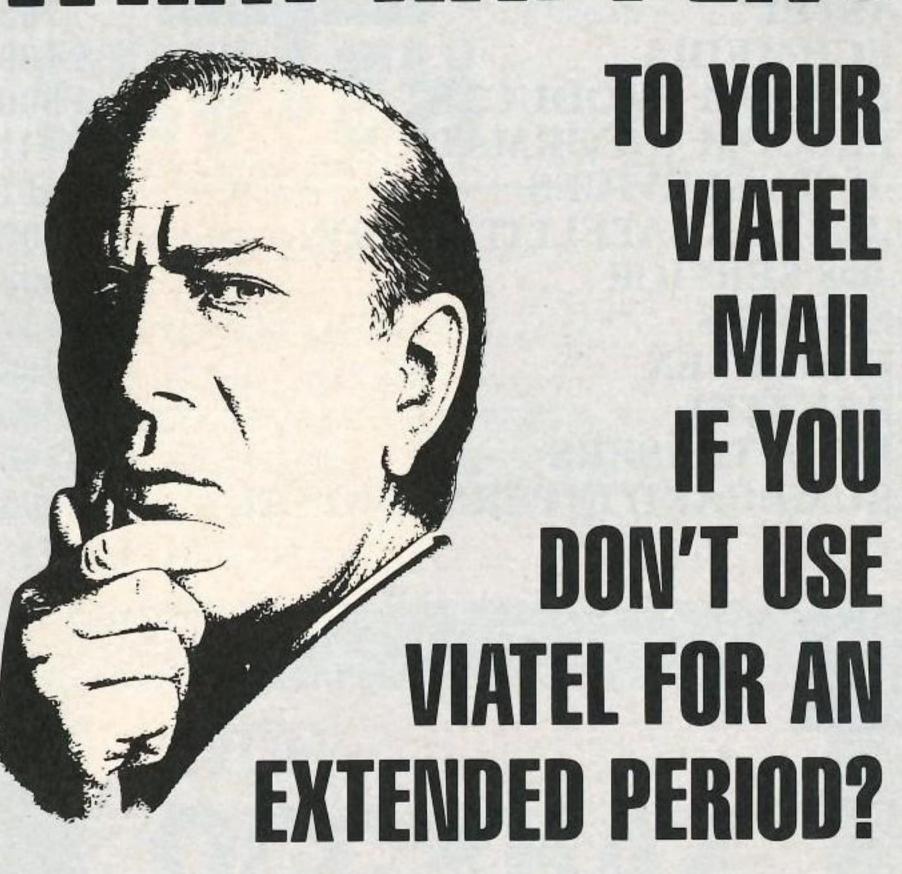
....444



The service is under development and is open for inspection on Viatel node *444#



WHAT HAPPENS



A number of users have asked us this question and we thought the answer would be of general interest.

As long as you use Viatel at least once every 3 months your mailbox messages are always held by Viatel. However, if you don't use Viatel at all for more than 3 months you can be placed in the category of suspended user. This results in all your existing messages being cancelled and you will need to let us know when you wish to start using Viatel again.

This action is taken as part of Viatel's security procedures.

In the next issue of this magazine we will be starting a regular column where we will answer some of the most frequently asked questions about Viatel.



APPLICATION FORM

DATE OF APPLICATION

1 1

BEFORE COMPLETING THIS APPLICATION, PLEASE READ REVERSE SIDE CAREFULLY

section	
	PLEASE TICK APPROPRIATE BOX TO INDICATE SERVICE REQUIRED
	BUSINESS SERVICE NON-BUSINESS SERVICE (CHARGES INCURRED ON BUSINESS SERVICES ARE USUALLY TAX DEDUCTIBLE)
	SURNAME (OR BUSINESS NAME IF BUSINESS SERVICE) GIVEN NAMES
	POSTAL ADDRESS NUMBER/STREET
	SUBURB/CITY STATE POSTCODE
	TELEPHONE NUMBER ON WHICH SERVICE IS REQUIRED (INCLUDING STD CODE)
section	
2	CONTACT NAME (IF BUSINESS SERVICE) GIVEN NAMES
	POSTAL ADDRESS FOR BILLING IF DIFFERENT FROM SECTION 1 ABOVE
	NUMBER/STREET
	SUBURB/CITY STATE POSTCODE
	CONTACT TELEPHONE NUMBER (INCLUDING STD CODE)
section	PLEASE DESCRIBE NATURE OF BUSINESS (OR OCCUPATION IF NOT A BUSINESS SERVICE
3	
	PLEASE INDICATE TYPE OF EQUIPMENT USED TO ACCESS VIATEL
special instructions	THIS FORM SHOULD BE HANDED IN AT ANY TELECOM BUSINESS OFFICE OR MAY BE
mismachons	MAILED WITHOUT A STAMP TO FREEPOST 20, VIATEL BOX 188C, GPO MELBOURNE, VICTORIA 3001
	PLEASE ALLOW TEN WORKING DAYS FOR PROCESSING OF APPLICATION AND RETURN
	MAIL ADVICE.
telecom	
use	DTE VN VN
only	BG SC CI

REGISTRATION AND SUBSCRIPTIONS

Customers must register as a Business Service if the telephone number nominated for the use of the VIATEL Service is a Business Service and/or VIATEL is to be used wholly or mainly for Business, Commercial, Industrial, Professional or Government purposes. (Charges incurred on Business Services are usually tax deductible.)

Where a Business Telephone Service is nominated for the use of VIATEL, but the use of VIATEL is wholly or mainly for Non-Business purposes, the Customer may be registered as a Non-Business VIATEL subscriber, providing the registration is taken out in the Customer's personal name and address and not a Business name.

Telecom Australia will register the Business or Individual named under Section 1 as a Customer of its VIATEL Service and will provide the Customer with a confidential Customer Identity Number and Personal Password by mail.

Where billing address is indicated, bills and bill related correspondence ONLY will be forwarded to that address. All other correspondence will be forwarded to address under Section 1.

Customers should advise VIATEL of any change of address as soon as possible.

If you lose your Customer Identity Number and/or Personal Password, you must advise VIATEL in writing before new numbers are issued. Our postal address is: Freepost 20, Box 188C, GPO Melbourne, Vic. 3001. FOR SECURITY REASONS REPLACEMENT NUMBERS AND PASSWORDS CANNOT BE PROVIDED OVER THE TELEPHONE.

Customers of VIATEL acknowledge that their name and registered VIATEL Number will appear on the VIATEL Mailbox Directory and that Service Providers and/or other registered VIATEL users may send messages to their VIATEL number.

Telecom Australia undertakes no responsibility in relation to the accuracy of the information or service provided by Service Providers on VIATEL. Telecom Australia will not be responsible for any loss or damage arising out of or in any way connected with the use of this information or service.

Attention is also drawn to the terms and conditions governing the provision of information and services by some Service Providers. These terms and conditions may, in some cases, include a disclaimer absolving the Service Provider from liability regarding information and services supplied on VIATEL. The means of accessing these terms and conditions is set out on the Service Provider's Index Page on VIATEL.

Should you require any changes to your existing telephone equipment (e.g. new exchange line, additional socket), please contact your local District Telecom Office.

In a small number of cases VIATEL reception may be unsatisfactory. Correction may incur an additional charge.

-USING WATEL ---

DETAILED INSTRUCTIONS

WHAT IS VIATEL?

Viatel is Telecom Australia's public videotex service. It allows you to access large stores of useful information merely by pressing keys on a small keypad. The information is fed to your office or home via the telephone line, and displayed in colour on a television screen or a special colour monitor.

Most of the information on Viatel is supplied by Service Providers (SPs) who are responsible for deciding what they put on Viatel and how they present it.

Telecom Australia is responsible for operating Viatel; it makes space avialable to SPs, and provides the indexes which allow users to find the SPs' information. Viatel users should note that Telecom Australia does not guarantee the accuracy of the information or service provided by Service Providers, nor accept responsibility for any loss or damage arising out of or in any way connected with the use of this information or service.

BECOMING A VIATEL USER

If you are not already registered with Telecom as a Viatel user, you should telephone or visit your local Telecom Business Office. These are listed at the front of your telephone directory. Viatel requires a telephone line connection to enable you to link up to the Computer Database. In most instances an existing standard telephone service is all that is required. However, in a small number of cases Viatel reception may be unsatisfactory. Upgrading of your telephone service to ensure quality data reception may be necessary, and this may incur an additional charge.

Your Telecom Business Office will be happy to give you information

about the Viatel service and about various kinds of Viatel equipment.

Contacting Viatel

Once you are a registered Viatel user, it is important for you to contact your Telecom Business Office or the Viatel service if you are changing your address or telephone number, or if you no longer want the Viatel service.

You can contact the Viatel service directly to advise them of any changes by keying *105 # on the system.

ACCESS NUMBERS AND PASSWORDS

When you become a registered Viatel user, you are given a series of access numbers and passwords to allow you to use the system. It is important for you to distinguish between them:

Viatel Number:

This number is rather like your Viatel "address". It is used when others want to send messages to you over the system, and it is the number you should quote if you need to contact Viatel about your bill or any other matter.

To find out your number Call Viatel Key *1012#

We suggest you look it up as soon as you have read the section on CALLING VIATEL, note it on a label, and attach it to your set. Don't confuse this number with your Customer Identity (see below).

Customer Identity

Every customer has a unique 10-digit Customer Identity. You are given your Customer Identity by letter when you register with Viatel. It is confidential, so keep it safe. You will need it, and your Personal

Password (see below) to access Viatel. It also identifies you to Viatel for charging purposes, so remember —
IF YOU LET ANYONE ELSE USE YOUR CUSTOMER IDENTITY, YOU WILL BE CHARGED FOR THEIR USE OF VIATEL.

Personal Password

Viatel customers are allocated a 4-character Personal Password when they register with Viatel. You are notified of it by letter at the time of registration. Like your Customer Identity, it is confidential and should be kept safe. It is extra security against anyone using Viatel in your name without your permission.

You can change your Personal Password as often as you like simply by keying *920 # on Viatel. Instructions on the screen will tell you what to do. You should change your Personal Password the first time you use Viatel.

Remember:

- A Personal Password can consist of any 4-character combination of letters (capitals or lower case) and numbers.
- If you lose your Personal
 Password, write to Viatel. Our
 address is:
 Free Post 20,
 VIATEL,
 Box 188C,
 GPO Melbourne 3001.
 You will not be able to use Viatel
 again until they have replied in
 writing. (Personal Passwords will
 not be divulged over the phone.)

YOUR SET AND THE VIATEL COMPUTER

There are some things you need to know about your set, and about the way it links up with the Viatel computer.

— USING WIATEL

There are various kinds of sets: special Viatel sets, ordinary TV sets with Viatel adaptors and personal computers with a 1200/75 modem and appropriate software. Each has its own operating instructions. Many sets will automatically dial the Viatel telephone number for you, and some will also transmit automatically your Customer Identity number.

Whichever kind it is, your set must have a Telecom Authorisation Number, before it can be linked up to the Computer via the telephone network.

Before you start using Viatel

- Read the operating instructions for your set.
- Contact the supplier if anything in them is not clear.
- If your set has an auto-dialler, check that this has been programmed with the correct telephone numbers. Usually sets allow you to do this yourself, if you have any difficulties contact your dealer.
- Make a note of the auto-dialler codes; we suggest putting them on a label and attaching it to the set.

When you are using Viatel

 Contact your set supplier if you are having trouble which you think is due to your equipment.

CALLING VIATEL

- 1 Switch on your Viatel set.
- 2 If your set has auto-dialling, key the code for Viatel and the set will dial the number for you. Otherwise, key in 01955 and await connect of your call. If your set is suitably equipped and programmed, it will automatically enter your Customer Identity number once it is connected to Viatel. Otherwise, key it in carefully yourself when it is required by Viatel.
- 3 Enter your Personal Password when it is requested and wait for

the Viatel Welcome Page to appear on the screen.

If you can't get the Viatel Welcome Page:

- Make sure no-one is using the telephone associated with the set.
- Make sure the telephone connection is pushed right in.
- If your keypad is connected to your Viatel set by cable, make sure the cable is properly plugged in.
- Switch off the set or switch to TV mode if it is available to check reception.
- Switch on again.
- Follow CALLING VIATEL steps
 1-3 again very carefully.

If you still can't make the connection to Viatel:

The fault could be in three areas:

- Your Viatel set;
- · The telephone line;
- The Viatel Computer.

To test where the fault may lie, check that your telephone line is still capable of operating correctly for ordinary telephone calls. If not, use another phone and call Service Difficulties on 1100.

If your Viatel set is capable of receiving broadcast TV, try out a normal broadcast channel. Refer to the operating manual for your set and check for any problems. If there is a fault, contact the supplier of your set.

If both set and telephone line seem to be all right on their own, again attempt to call Viatel. If difficulties persist contact Viatel Assistance and Difficulties by dialling 008 033344 (local call fee).

FINDING INFORMATION

There are a number of different ways of locating information on Viatel. You will use different ways for different purposes.

Through Viatel itself

Keying through index choices:

Starting with the main Viatel index (key *0 #), you can simply follow the choices listed on each page, working towards more and more specific information. This may be a slow way of reaching a particular topic, but useful if you want to "browse" to see what information is accessible.

- Using the Viatel Subject Index:
 An extensive alphabetical list to subjects is maintained on Viatel itself. Key *13 # and follow the instructions on the screen. You can find the name of the subject you want in a few simple steps and then key one or two numbers to go direct from there to the index page for Viatel information on that subject.
- Using the Viatel Service Provider Index:

Also listed on Viatel are all of the Service Providers presently putting information on the system. Key *13 # and follow the instructions on the screen. This enables you to find the name of the Service Provider in an alphabetical list, and then go direct to that Service Provider's "front page".

Through The Directory

The Viatel Printed Directory also contains alphabetical lists to subjects and to Service Providers. It cannot be updated as quickly as the on-screen Viatel indexes, but more detailed information can be provided, and it enables you to quickly find the right page number for the subject or Service Provider you want to find, before you even connect up to the Viatel service.

Using the printed Subject Index: Find the name of the subject you are interested in, in the alphabetical list of subjects. Note the page number or numbers you are interested in. Then call Viatel, and once you reach the Viatel

— USING VIATEL —

welcome page, key *page number # to go straight to the subject you want. If you want to go to a second subject, again key *page number # for the subject.

Using the printed Service Provider index:

Similarly, look up the Service Provider or Providers you are interested in, note down the numbers, call Viatel, reach the Welcome Page, and then key *page number # to reach the front page of the Service Provider you want.

Charged Pages

Remember: Some SPs make a charge for some pages of their information.

 For a full explanation of how Viatel is charged for; see PAYING FOR VIATEL.

If keying a particular number on any page will lead you to a page for which a charge is made, the charge is shown like this:

- News headlines at 10.00 am
 5 cents
- Today's company results
 Market report at 11.30 am
 20 cents
- Industrial Ordinary index

so that you can choose whether you want to see it and pay.

If you do go on to request the charged page, the charge is shown in the top right-hand corner. Free pages have 0 cents in that position.

That's all there is to normal use of Viatel.

EXITING VIATELWhen you want to leave Viatel:

Key *90 #.

This will automatically end your call to Viatel, unless there is a Mailbox message waiting for you If there is a Mailbox message for

you, a note telling you how to see it will appear on the screen when you key *90 #.

- If you want to see the message, key *930 #.
- Follow the instructions on that page, then either key *0 # to continue on Viatel or *90 # to leave.
- If you don't want to see the message key #, and that will automatically end your call to Viatel.

Other things that may end your call

A call to Viatel will be automatically ended without your intending it if:

- Power to your Viatel set is interrupted (for example by an electricity breakdown).
- Someone switches off your Viatel set.
- The phone call from your set to the Viatel computer is disconnected.

If your call ends like this, check the reason, and if you want to go on with your call, start again and call Viatel according to the instructions under Calling Viatel.

PAYING FOR VIATEL

There are four basic elements to the charges for Viatel.

1 A Viatel subscription fee (introductory discounts apply to 1st March 1986)

Business \$12.50 per month Non-Business \$ 2.50 per month

2 The cost of a local telephone call to be connected to the Viatel computer from any location in Australia (this charge will be displayed in the top right hand corner of the 'Welcome to Viatel' frame and appear on your Viatel bill as part of the frame access charge)

3 A charge for the time spent connected to the Viatel computer

Monday-Friday 8 a.m.-6 p.m. 8 cents per minute (Eastern Standard Time)

At all other times 5 cents per minute.

4 A frame access charge where applicable.
This charge is set by the provider of the information and is collected by Telecom on behalf of the Service Provider.

You will receive a separate bill for the charges incurred using Viatel at regular monthly or quarterly intervals.

Checking your charges as you use Viatel

Any time you are connected to Viatel you can: key *92 #

The screen will show you:

- Total usage charges for this call
- Total usage charge for the current month

Enquiries
Billing enquiries should be directed to the contact point shown on your bill under 'Enquiries'.

Getting value for money from Viatel

There are some simple ways of making sure that you get the most out of Viatel.

- Use your set after 6 p.m. and at weekends to take advantage of cheaper rates.
- Get to know the different ways of looking for information, and choose the most appropriate one each time you use Viatel.
- Cut down the time your set is connected to Viatel by looking up the pages you need in the printed Directory and going

straight to them when you do call Viatel.

- Make your own list of pages that you use frequently.
- Always check before you make a choice from a screen index if there is a charge for the page you think of going to, so that you are charged only for the pages you really want to see.
- Get to know the special features of your own set which can save you costs. Study the instructions with your set, or consult your supplier. You may, for instance, be able to disconnect your set from the Viatel computer, while keeping the page you are looking at on the screen.

SPECIAL VIATEL FEATURES

Response frames

The response frame is a special kind of Viatel page which allows you to send a message to the Service Provider who has put the response frame on Viatel — for example, you can use it to order goods, or to make reservations. To use a response frame, follow the instructions on the frame.

Mailbox

Mailbox is a facility which allows Viatel customers to send messages to each other.

To send a Mailbox Message.

- Check the Viatel number of the person to whom you want to send it: key *1035 # for the Mailbox Directory.
- Select the appropriate Mailbox frame for your message: key*103 # to see the types available.
- Key the number alongside the type you need; it will appear on the screen ready for you to fill in.
- Key the Viatel number of the person to whom you are sending

the message; after the number key #.

- Fill in the other parts of the frame according to the instructions; end each part with #.
- When the message is complete, you are given the choice of sending it or cancelling it (in case you have made any mistakes and want to start again).
- Key the number for whichever you wish to do.

To see if there are Mailbox messages for you:

- Key *930 #
 You will also be told if there are Mailbox messages for you when you connect or leave Viatel. (See Exiting Viatel above.)
- To store messages so that they can be looked at again:
- Instructions for storing appear on line 24 of Viatel page *930 #
- Key *931 # to see stored messages again.

Private Pages

In looking for information, you may be informed by a message on the screen that the page you have asked for is a Private Page. This is a page which is not available for public viewing and may be seen only by members of a group set up by the Service Provider (a Closed User Group or CUG).

Gateway

Gateway gives you access to information which is held on a computer belonging to a Service Provider.

To see an index of Gateway SPs:
• Key *103591 #.

Using Gateway:

 Go to the SP's first page, which will give you a route to the first Gateway page.

Follow carefully the instructions

which appear on the screen.
Some of them are different from the normal Viatel instructions, so you need to pay particular attention. A list of the codes for using Gateway is given below.

Remember:

There may be some delay before you see the information you require on Gateway. This is because the Viatel computer has to pass on instructions to the SP's own computer, and that in turn has to find and send the required information back to the Viatel computer.

 Wait until you receive the page you want before keying any more codes.

Gateway 'data collection' pages:

These are like Viatel response frames; they allow users of Gateway to send information to Gateway Service Providers' own computers. Data collection pages have separate parts which you fill in by keying appropriate numbers.

Telecom Australia undertakes no responsibility in relation to the accuracy of the information or service provided by Service Providers on VIATEL. Telecom Australia will not be responsible for any loss or damage arising out of or in any way connected with the use of this information or service.

Attention is also drawn to the terms and conditions governing the provision of information and services by some Service Providers. These terms and conditions may, in some cases, include a disclaimer absolving the Service Provider from liability regarding information and services supplied on VIATEL. The means of accessing these terms and conditions is set out on the Service Provider's Index Page on VIATEL.

-USING WIRIEL

USEFUL CODES AND PAGE NUMBERS

Assuming that you are now properly connected to Viatel and have received the Viatel welcome page, there are a number of useful codes that you will need to use. Here is a basic list of the codes that you use on Viatel and some of the main page numbers that lead to useful information.

USEFUL PAGE NUMBERS

Information

Viatel number *1012#
Alphabetical index of SPs *13 #
Alphabetical index of
subjects *13#
Bill information
(Current usage charge) *92 #
Business Information *11#
Complaints
& Compliments *1052 #
Main index *0 #
Mailbox *103 #
Personal Password *920 #
How to use Viatel *199 #
Viatex

USEFUL CODES

Operation

From an index page

To get directly to any page from any page

To get back to the page you last saw

To correct a mistake in keying a page number:

if you haven't yet keyed #

if you have keyed =

To repeat the page that's on the screen.

Use this if a message saying 'Line noise' appears on the page.

There is no extra charge if it's a charged page.

To repeat the page that's on the screen, with any updates to it that may have been made while you have been viewing it.

To leave Viatel:

If there are new messages for you (see Mailbox) this page will tell you. If not, your call to Viatel will end.

Key:

The number or numbers of the choice you want to make.

*page number #

*#

you can use this 3 times in succession on any one occasion.

**cancels the mistake and you can start again.

When you get the page you called by mistake, just key the right number.

*00

*09

If it's a charged page, you'll be charged for it again.

*90#

CODES FOR GETTING AROUND GATEWAY Operation

Choosing from an index

(Telex Interface)

What's New on Viatel

To get from any page to any page.

To repeat the page that's on the screen.

To repeat the page on screen, with updates.

To go back to the page you last saw.

To correct a mistake in keying a code.

To leave Gateway and go back to ordinary Viatel.

To leave the SP's computer to which you are connected.

Key

*1036#

Number alongside your choice

*page number #

*00

*09

*#

Not all SP's own computers allow this; if they don't, keying * # just gives you the same page again.

* *

*07

This gives you the main index; then you can go on using Viatel in the normal way.

*02

This gives you the SP's 'goodbye' page.

IF YOU KNOW THE NAME, KEYWORD SEARCH WILL FIND THE MAILBOX NUMBER.

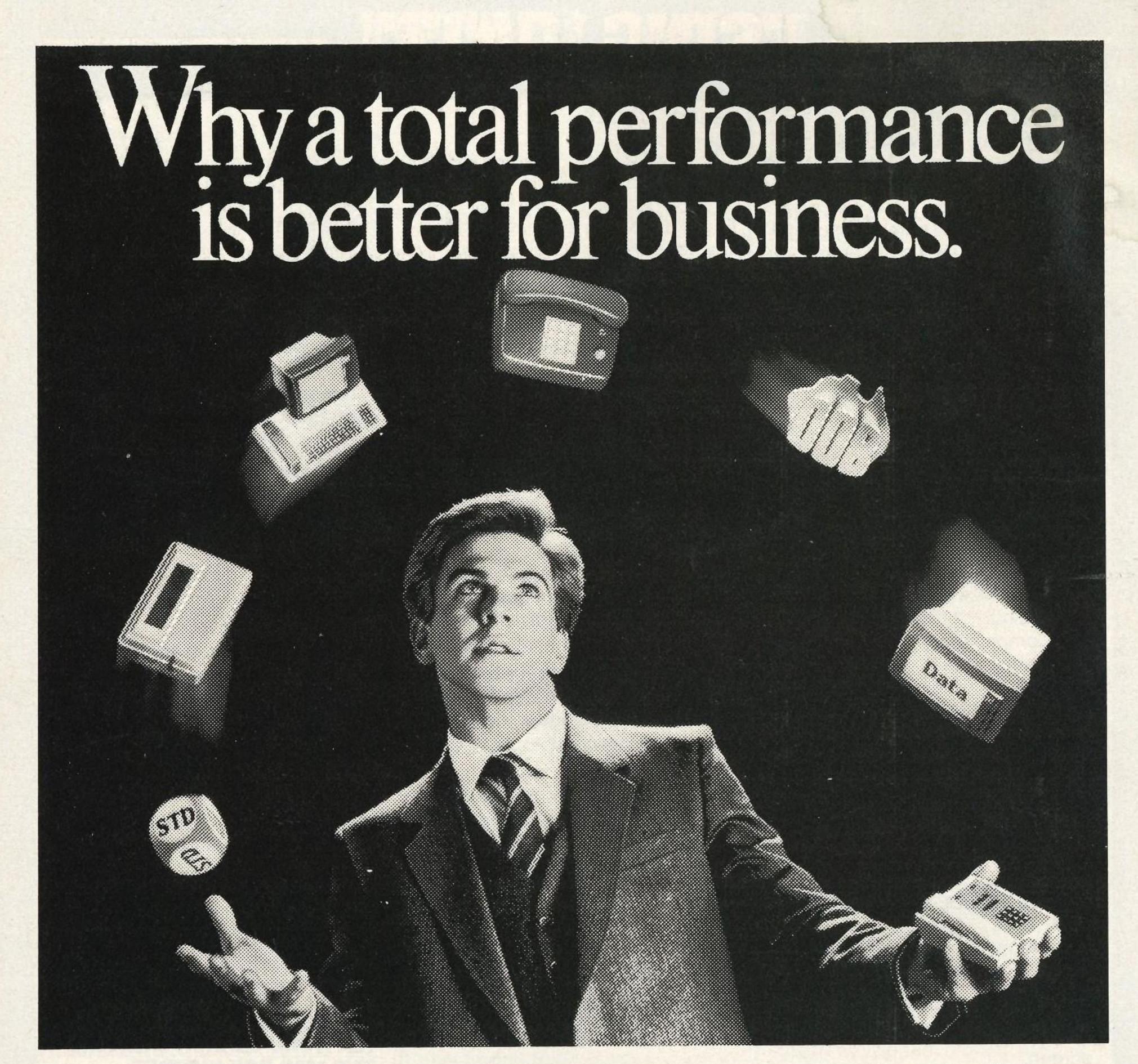
Keyword Search is the easy way to find Viatel numbers.

All you have to do is key in the name of the person you want to send a message to, and Keyword Search does the rest.

A great time-saver. Try it the next time you want to send a mailbox message.







ost suppliers of business communication equipment tend to specialise in certain areas. Which makes obtaining an effective integrated system that much more difficult.

But fortunately your Telecom business consultant can help with an unparalleled array of products and services for both large and small businesses.

From a simple phone to the most complex PABX. From Telex through Telememo to ComputerPhone. From pagers to mobile phones. And through a range of advanced data communication services.

But best of all Telecom has a unique ability to integrate them all into a single compatible system, supplied and backed by the one single company.

It's this kind of total performance which makes Telecom's service better for business.

Call us on 008 011 311* for the cost of a local call and see what we can do for you.

*In Tasmania call 31 4888.



Telecom Australia
Better for Business

TAKE YOUR PERSONAL COMPUTER OUT INTO THE BIG WIDE WORLD.
WITH TELECOM VIATEL.

Until now, your personal computer was generally limited to your information input. Or to the software available. Now Telecom Viatel opens up a whole new world for PC owners.

Utilizing the existing telephone network, Viatel distributes a wide range of information and services via a central computer. Direct to your home or office.

So you can bank from home. Send messages to other Viatel users. Access Telecom's national Telex network. Get updates on news, sport and weather. Follow economic indicators. Make bookings. Check airline schedules. Order goods. Play games. And much more. Even download new computer programs onto disk or cassette for your own use*.

Your personal computer can be adapted to emulate a Viatel terminal. All you need are a Telecom approved 1200/75 baud modem and the appropriate software. These are now readily available for most PC's.

Your dealer will know what is best for your particular PC. Talk to him first about your needs.

Then contact your local Telecom Business
Office—listed in your Telephone Directory—to
arrange connection to Telecom Viatel.

*Subject to your software configuration.



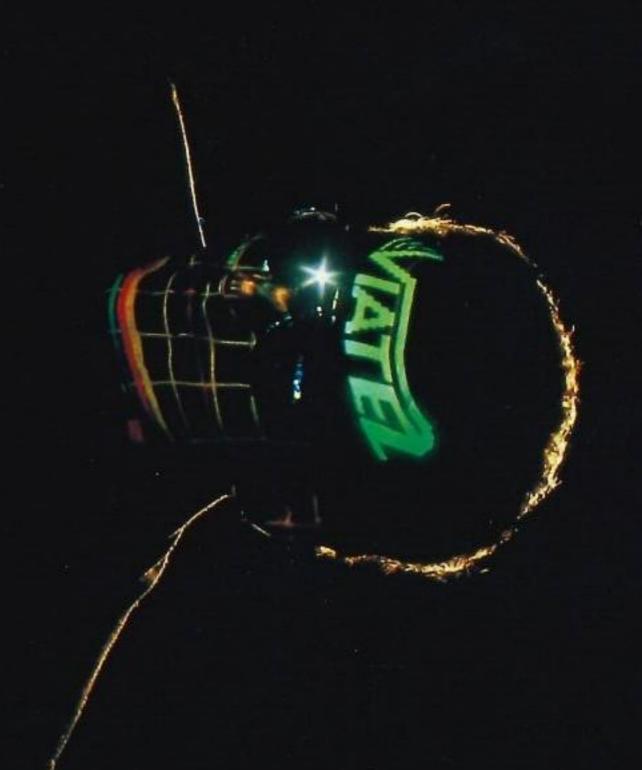


TM408

Welcome to



If undelivered return to Telecom Australia BOX 188C,G.P.O. Melbourne Vic. 3001 Telecom Australia



For one whole weekend, 1^C per minute is all you pay for access time on Viatel.

That's right, just one cent a minute to access Viatel. For one whole weekend. To find out which weekend, just log on to page *3# on Viatel now.

Then you can spend two days browsing through Viatel, paying only 20% of the normal access time rate. Checking out the many new Service Providers. And keeping up with the greatly expanded services of existing Service Providers.

Remember, you still pay the local call fee for connection to Viatel. And for charged pages. But for that one whole weekend, your access time costs just one cent a minute. Make sure you take advantage of it.









IF UNDELIVERED RETURN TO BOX 188C, G.P.O. MELBOURNE, VIC. 3001



POSTAGE
PAID
AUSTRALIA

Peppermint Grove, WA

6011